

NOTICE

Date: 09/08/2023

We are excited to announce that the College will be introducing value-added courses on advanced topics of **Biostatistics and DoE (Design of Experiments)**, as well as **Python and AI/ML**. These courses have been designed to help our students gain a competitive edge in the job market and further studies.

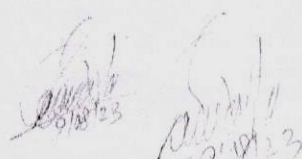
To enroll for these special courses, please fill out the form provided. The courses will begin in **August 2023** and are aimed at enhancing your IT and Data Analytics skills to make you industry-ready.

Please note that **each course** has **only 30 seats** available. In case of more applicants, the selection process will involve suitable screening to identify the best candidates.


The **last date for enrollment** is **14-08-2023**, and there is **no course fee**.

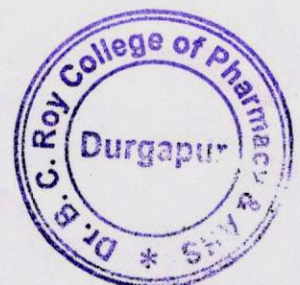
The courses offered are:

1. For **B. PHARM II** year: **Basic Programming with Python and its application in database management, Artificial Intelligence and machine learning (AI/ML) for Pharmacy.**
2. For **B. PHARM IV** year and **M. Pharm I/II** year: **BIostatistics & DoE FOR PHARMACEUTICAL APPLICATIONS**


Principal

Link for Enrollment: <https://forms.gle/jPiy93DyQHpDAYAe6>


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



To

The Principal,

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences,

Durgapur,

West Bengal

Subject: Add-on course on Basic programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Sir,

It is to inform that the above-mentioned course has been started on 29th August 2023 with 40 B. Pharm., 2nd Year students selected on the basis of merit list. The details of these students are provided in the next page. The merit list was constructed based on the following criteria.

Total score= 0.5*Class XII Mathematics marks (or Mathematics marks of B. Pharm. 1st Semester)+0.25* Class X Mathematics marks+0.25*(B. Pharm. 1st Semester SGPA*10).

From now on, the classes of this 40 credit hours course will be conducted on Monday and Thursday of each week.

Thanking you,

Sincerely yours,

Amit Kumar Halder

AH
17/8/23

and

Soumen Banerjee

Soumen
17/08/23




[Signature]
Prof. (Dr.) *Soumen* Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

List of students enrolled for the course

Merit List Rank	NAME	ROLL NO
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Final

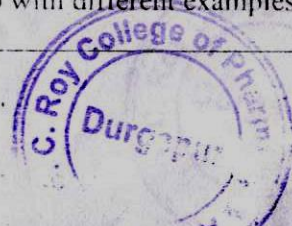
Course name: Basic programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Level of the course: Certificate

Course objective: To teach the students of Pharmacy Python programming language as well as to train them in database management, artificial intelligence/machine learning using Python to improve their career opportunities.

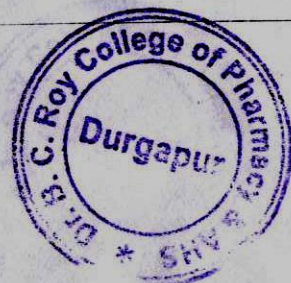
Proposed course structure:

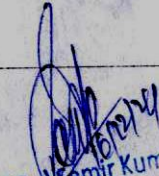
Class	Content/Topic	Required Time (in hour)/Credit hour	Year
Unit 1	Introduction to Python		2nd
1	History, use and basics of Python	1	2 nd
2	Data types: Understanding different data-types, size and use	1	2 nd
3	Operators: Explanation about relational, conditional, logical, modulo-division, Boolean operators with different examples and programming implementations	1	2 nd
Unit 2	Conditional statement		2nd
1	Conditional statement -1: Explaining the syntax of if, if-else and elif	1	
2	Conditional statement -2: Programming examples and implementation of all the conditional statements.	1	2 nd
Unit 3	Loop		
1	Loop-1: Introduction to <i>while</i> loop with different examples and programming implementation.	1	2 nd
2	Loop-2: Introduction to <i>for</i> loop with different examples and programming implementation.	1	2 nd
3	Loop-3: Use of range functions in <i>for</i> and <i>while</i> loop with different examples and programming implementation.	1	2 nd
Unit 4	Lists, Tuple and Dictionary		
1	Lists-1: Lists constructs, syntax and use	1	2 nd
2	Lists-2: Use of lists in <i>for</i> and <i>while</i> loop with different examples and programming implementation	1	2 nd



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3	Tuple: Tuple constructs, syntax and use with programming examples	1	2 nd
4	Dictionary: Dictionary constructs, syntax and use with programming examples	1	2 nd
Unit 5	Functions and Class		
1	Functions-1: Introductions to functions, use and classifications of functions	2	2 nd
2	Functions-2: Programming examples and implementations of built-in functions and user-defined functions	2	2 nd
3	Class concepts: Introduction to object-oriented programming (OOP) with Class with programming implementations	2	2 nd
	Exam-1	2	2 nd
Unit 6	Important python packages		
1	NumPy: Introduction to numPy, numPy array, uses of NumPy in mathematical calculations.	1	2 nd
2	SciPy: Introduction to SciPy and uses of SciPy in mathematical calculations.	1	2 nd
3	Database management with Pandas: Introduction to Pandas and its uses in database handling. Introduction to different data formats (e.g., .csv, .xlsx).	1	2 nd
4	Database management with Pandas: How to import/export the different data types with Pandas and how to edit the data and obtain statistical results	1	2 nd
Unit 7	Artificial Intelligence and Machine Learning		
1	AI/ML: Introduction to AI and ML +concepts about supervised and unsupervised learning.	1	2 nd
2	ANN: Basic concept of artificial neural network, introduction to Perceptron.	1	2 nd
3	Perceptron: How to write a basic program for Perceptron with Python	2	2 nd
4	MLP and DNN: Concepts of Multilayer Perception and Deep Neural Network	2	2 nd
Unit 8	Applications of AI/ML in Pharmacy		
1	Databases in Pharmacy and Bioinformatics: Collection and curation of chemical/pharmaceutical datasets for a specific biological target from ChEMBL and Binding Database (using Pandas and NumPy) and other databases.	2	2 nd




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2	Cheminformatics: Basic concepts of cheminformatics and how to calculate molecular descriptors and fingerprints using various non-commercial packages.	2	2 nd
3	Rdkit and molecular descriptors: Introduction to Python based Rdkit program to import data, convert data formats and calculations of molecular descriptors and fingerprints.	2	2 nd
4	How to use Scikit-learn for developing ANN models for the pharmaceutical datasets.	2	2 nd
5	How to use Tensorflow for developing ANN models for the pharmaceutical datasets.	2	2 nd
6	Transformer-CNN: Development of Transformer-CNN models using SMILES notations of chemical compounds.	2	2 nd
	Exam-2		40
	Total		

Requirement:

Human resource: Will be conducted by selected faculties of Dr. B. C. Roy College of Pharmacy and A. H. S. (BCRCP)

Course coordinators: (a) Mr. Soumen Banerjee, Assistant Professor, BCRCP

(b) Dr. Amit Kumar Halder, Associate Professor, BCRCP

Proposed by: I.T. Cell, BCRCP

- (a) Prof. Subhbrata Ray
- (b) Dr. Souvik Basak
- (c) Dr. Amit Kumar Halder
- (d) Dr. Falguni Patra
- (e) Mr. Soumen Banerjee

Ray
07/07/23

Soumen Banerjee
Amit Kumar Halder 7/7/23

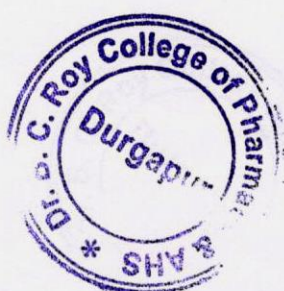
Falguni Patra
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Attendance Sheet

Total: 33 present

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

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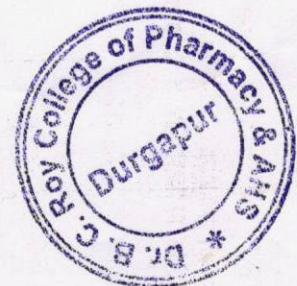
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7/3/24

11/3/24

Attendance

Merit List Rank	NAME	ROLL NO	Signature
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saamyadip Kayal	18901922086	
ML22	Ritrisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh

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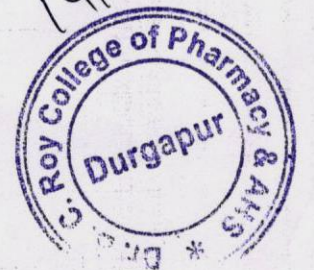


Date: 14.03.2024

Attendance

Merit List Rank	NAME	ROLL NO	Signature
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Sahein	18901922036	
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	
ML18	Soumyadip Pal	18901922093	
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	
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Date: 21.03.2024

Attendance

Merit List Rank	NAME	ROLL NO	Signature
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
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ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
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ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
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ML19	Debjit Chakrabarti	18901922075	
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ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvicck Maity	18901922100	Souvicck Maity
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
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ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
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ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
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Attendance Sheet

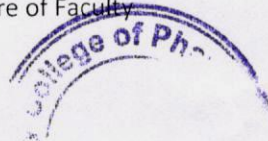
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 28.03.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
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ML12	Munshi Aman Sahein	18901922036	
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
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ML23	Manoj Kumar	18901922002	
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 Prof. (Dr.) Samir Kumar Samanta
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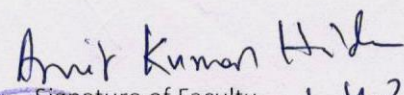
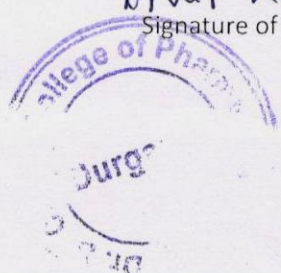
Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 01.04.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	
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ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saamyadip Kayal	18901922086	
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	
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ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


 Prof. (Dr.) Santanu Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
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 Durgapur, West Bengal-713206



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 Signature of Faculty
 1.4.24



Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 08/04/2024

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
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ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	-Ankit Das-
ML18	Soumyadip Pal	18901922093	
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
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ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
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ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	
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 Prof. (Dr.) Samir Kumar Samanta
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 Signature of Faculty


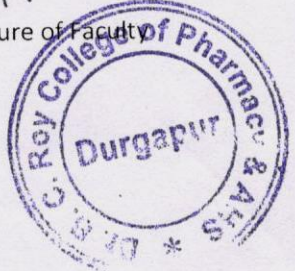
Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 15.04.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	
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ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
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ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
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ML18	Soumyadip Pal	18901922093	
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ML22	Ritriisha Adhikary	18901922021	
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ML25	Souvick Maity	18901922100	
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ML27	Rakhi Dhua	18901922018	
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 Prof. (Dr.) Samir Kumar Samanta
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Signature of Faculty

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 Durgapur

Attendance Sheet

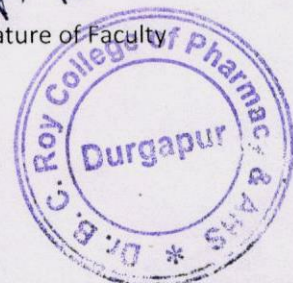
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 18.04.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
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 Prof. (Dr.) Samir Kumar Samanta
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 Durgapur, West Bengal-713206

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 Signature of Faculty




Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 25.4.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
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ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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At 25.04.24
 Signature of Faculty




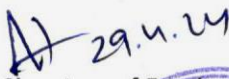
Attendance Sheet

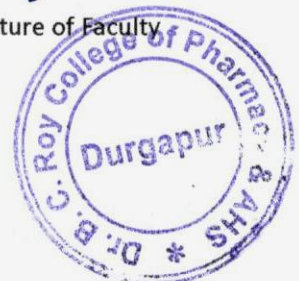
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 29.4.24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Sahein	18901922036	
ML13	Rintu Pal	18901922082	✓
ML14	Ayan Mondal	18901922087	
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	
ML18	Soumyadip Pal	18901922093	
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	
ML24	Arpita Roy	18901922085	
ML25	Souvick Maity	18901922100	
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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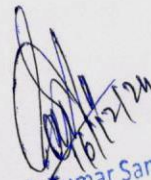


Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 2/5/24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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At 2/5/24
 Signature of Faculty





Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 9/5/24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Sahein	18901922036	
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	
ML18	Soumyadip Pal	18901922093	
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	
ML24	Arpita Roy	18901922085	
ML25	Souvik Maity	18901922100	
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	
ML40	Soumyadip Mahato	18901922074	
ML41	Sayan Bhattacharyay	18901922020	
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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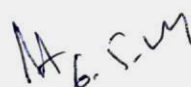
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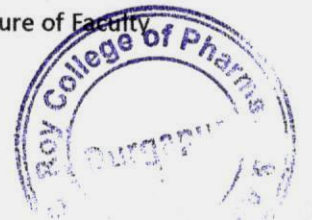
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 6/5/24

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia.
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	
ML06	Suman Jana	18901922081	
ML07	Samadrita Ghosh	18901922015	
ML08	Samprati Maity	18901922066	
ML09	Surajeet Ghosh	18901922060	
ML10	Subham Dey	18901922033	
ML11	Abhijit Khutia	18901922037	
ML12	Munshi Aman Sahein	18901922036	
ML13	Rintu Pal	18901922082	
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	
ML17	Ankit Das	18901922090	
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	
ML20	Spandan Ghosh	18901922034	
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	
ML23	Manoj Kumar	18901922002	
ML24	Arpita Roy	18901922085	
ML25	Souvick Maity	18901922100	
ML26	Oindrila Nag	18901922007	
ML27	Rakhi Dhua	18901922018	
ML28	Bishal Das	18901922084	
ML29	Shreyasi Maiti	18901922103	
ML30	Akash Routh	18901922010	
ML31	Nayan Dutta	18901922044	
ML32	Agnik Khutia	18901922058	
ML33	Prithwish Ghosh	18901922054	
ML34	Soumen Khanra	18901922017	
ML35	Saikat Biswas	18901922079	
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	
ML39	Subhadip Banerjee	18901922019	
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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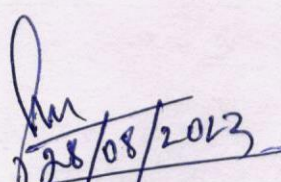
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 28/08/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	Ritriisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvic Maity	18901922100	Souvic Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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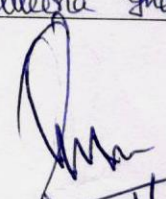
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 31/08/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Saheir	18901922036	Munshi Aman Saheir
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh.
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritirisha Adhikary	18901922021	Ritirisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar.
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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31/08/23

Attendance Sheet


Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 04/09/2023.

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	A
ML02	Santanu Das	18901922104	A
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	A
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	A
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Saheir	18901922036	Munshi Aman Saheir
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	A
ML18	Soumyadip Pal	18901922093	A
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	A
ML22	Ritriisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	A
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	A


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 04/09/2023
 Signature of Faculty

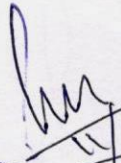

Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 11/09/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey.
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debit Chakrabarti	18901922075	Debit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh.
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	Nayan Dutta
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas.
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee.
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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 Signature of Faculty


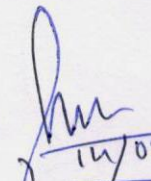
Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 14/09/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Saheir	18901922036	Munshi Aman Saheir
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh
ML21	Saamyadip Kayal	18901922086	Saamyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	Nayan Dutta
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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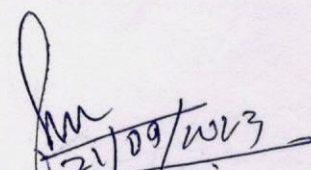

Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 21/09/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	A
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	Nayan Dutta
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato A
ML41	Sayan Bhattacharyay	18901922020	A
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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 Signature of Faculty


Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 30/10/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritirisha Adhikary	18901922021	Ritirisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	Nayan Dutta
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	A
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	A
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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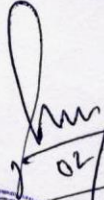


Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 02/11/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	A
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	A
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 04/11/2023 online class

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia ✓	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	A
ML03	Chayanika Kundu ✓	18901922092	chayanika Kundu
ML04	Kushal Saha ✓	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	A
ML07	Samadrita Ghosh ✓	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	A
ML09	Surajeet Ghosh ✓	18901922060	Surajeet Ghosh
ML10	Subham Dey ✓	18901922033	Subham Dey.
ML11	Abhijit Khutia ✓	18901922037	Abhijit Khutia
ML12	Munshi Aman Sahein ✓	18901922036	Munshi Aman Sahein
ML13	Rintu Pal ✓	18901922082	Rintu Pal
ML14	Ayan Mondal ✓	18901922087	Ayan Mondal
ML15	Tutun Mandal ✓	18901922003	Tutun Mandal
ML17	Ankit Das ✓	18901922090	Ankit Das
ML18	Soumyadip Pal ✓	18901922093	Soumyadip pal
ML19	Debjit Chakrabarti ✓	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh ✓	18901922034	Spandan Ghosh.
ML21	Saumyadip Kayal ✓	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary ✓	18901922021	Ritriisha Adhikary
ML23	Manoj Kumar ✓	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	A
ML25	Souvick Maity ✓	18901922100	Souvick Maity
ML26	Oindrila Nag ✓	18901922007	Oindrila Nag
ML27	Rakhi Dhua ✓	18901922018	Rakhi Dhua A
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	A
ML30	Akash Routh ✓	18901922010	Akash Routh
ML31	Nayan Dutta ✓	18901922044	Nayan Dutta
ML32	Agnik Khutia ✓	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas ✓	18901922079	Saikat Biswas
ML36	Abhijit Ghosh ✓	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta ✓	18901922038	Tanmoy Datta
ML38	Shreya Rout ✓	18901922094	Shreya Rout
ML39	Subhadip Banerjee ✓	18901922019	Subhadip Banerjee.
ML40	Soumyadip Mahato ✓	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay ✓	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh ✓	18901922091	Debleena Ghosh

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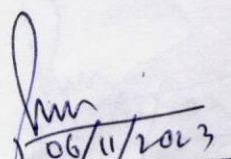
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 06/11/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	A
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey.
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	A
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh.
ML21	Saumyadip Kayal	18901922086	A
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	Nayan Dutta.
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta.
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	A


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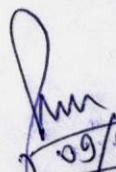
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 09/11/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	A
ML02	Santanu Das	18901922104	A
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	A
ML08	Samprati Maity	18901922066	A
ML09	Surajeet Ghosh	18901922060	A
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	A
ML18	Soumyadip Pal	18901922093	A
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	A
ML22	Ritrisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	A
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	A
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	A
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	A
ML39	Subhadip Banerjee	18901922019	A
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 Signature of Faculty

Attendance Sheet


Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 23/11/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	A
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	A
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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 23/11/2023
 Signature of Faculty

Attendance Sheet


Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 30/11/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das.
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	A
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	SURAJEET GHOSH
ML10	Subham Dey	18901922033	Subham Dey.
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	A
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	A
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	Ritriisha Adhikary
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	A
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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Attendance Sheet

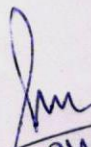
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 04/12/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	A
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	A
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	A
ML18	Soumyadip Pal	18901922093	Soumyadip pal
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	A
ML22	Ritisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	A
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmay Datta
ML38	Shreya Rout	18901922094	Shreyad Rout
ML39	Subhadip Banerjee	18901922019	A
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	A
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 07/12/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	A
ML06	Suman Jana	18901922081	A
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity.
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	A
ML18	Soumyadip Pal	18901922093	A
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	A
ML26	Oindrila Nag	18901922007	A
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	A
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	A
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
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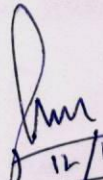
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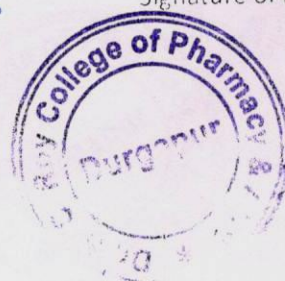
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 12/12/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
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ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	A
ML19	Debit Chakrabarti	18901922075	Debit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saamyadip Kayal	18901922086	Saamyadip Kayal
ML22	Ritriisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	A
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	A
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ME39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ME40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ME41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
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 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206


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 Signature of Faculty



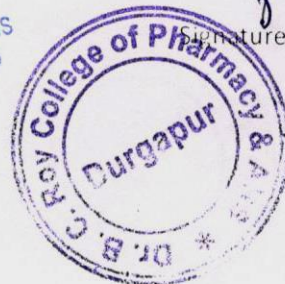
Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 14/12/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Saheini	18901922036	Munshi Aman Saheini
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	A
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritriisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	A
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh

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14/12/2023

Attendance Sheet


Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 20/12/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	A
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	A
ML08	Samprati Maity	18901922066	A
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Sahein	18901922036	A
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	A
ML15	Tutun Mandal	18901922003	A
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	A
ML22	Ritriisha Adhikary	18901922021	A
ML23	Manoj Kumar	18901922002	A
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	A
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	A
ML28	Bishal Das	18901922084	A
ML29	Shreyasi Maiti	18901922103	A
ML30	Akash Routh	18901922010	A
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	A
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	A
ML38	Shreya Rout	18901922094	A
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
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 Signature of Faculty

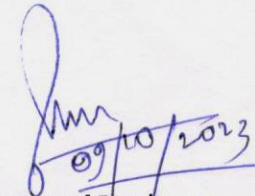
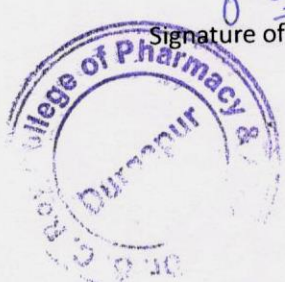
Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 09/10/2023

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	Subham Dey.
ML11	Abhijit Khutia	18901922037	Abhijit Khutia
ML12	Munshi Aman Sahein	18901922036	Munshi Aman Sahein
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	Debjit Chakrabarti
ML20	Spandan Ghosh	18901922034	Spandan Ghosh.
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	A
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	Nayan Dutta
ML32	Agnik Khutia	18901922058	Agnik Khutia
ML33	Prithwish Ghosh	18901922054	Prithwish Ghosh
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	Saikat Biswas
ML36	Abhijit Ghosh	18901922035	A
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	A
ML40	Soumyadip Mahato	18901922074	A
ML41	Sayan Bhattacharyay	18901922020	A
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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Attendance Sheet

Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 29/01/24 Practical Exam

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip Pal
ML19	Debjit Chakrabarti	18901922075	A
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ML22	Ritriisha Adhikary	18901922021	Ritriisha Adhikary
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ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvik Maity	18901922100	Souvik Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das
ML29	Shreyasi Maiti	18901922103	Shreyasi Maiti
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
ML42	Debleena Ghosh	18901922091	Debleena Ghosh


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 29/01/24
 Signature of Faculty


Attendance Sheet

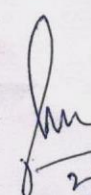
Course Name: Basis programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

Date: 29/01/2024 Theory Exam.

Merit List Rank	NAME	ROLL NO	Attendance
ML01	Suvajit Bhunia	18901922102	Suvajit Bhunia
ML02	Santanu Das	18901922104	Santanu Das
ML03	Chayanika Kundu	18901922092	Chayanika Kundu
ML04	Kushal Saha	18901922088	Kushal Saha
ML06	Suman Jana	18901922081	Suman Jana
ML07	Samadrita Ghosh	18901922015	Samadrita Ghosh.
ML08	Samprati Maity	18901922066	Samprati Maity
ML09	Surajeet Ghosh	18901922060	Surajeet Ghosh
ML10	Subham Dey	18901922033	A
ML11	Abhijit Khutia	18901922037	A
ML12	Munshi Aman Saheem	18901922036	Munshi Aman Saheem
ML13	Rintu Pal	18901922082	Rintu Pal
ML14	Ayan Mondal	18901922087	Ayan Mondal.
ML15	Tutun Mandal	18901922003	Tutun Mandal
ML17	Ankit Das	18901922090	Ankit Das
ML18	Soumyadip Pal	18901922093	Soumyadip pal
ML19	Debjit Chakrabarti	18901922075	A
ML20	Spandan Ghosh	18901922034	A
ML21	Saumyadip Kayal	18901922086	Saumyadip Kayal
ML22	Ritisha Adhikary	18901922021	Ritisha Adhikary
ML23	Manoj Kumar	18901922002	Manoj Kumar
ML24	Arpita Roy	18901922085	Arpita Roy
ML25	Souvick Maity	18901922100	Souvick Maity
ML26	Oindrila Nag	18901922007	Oindrila Nag
ML27	Rakhi Dhua	18901922018	Rakhi Dhua
ML28	Bishal Das	18901922084	Bishal Das.
ML29	Shreyasi Maity	18901922103	Shreyasi Maity
ML30	Akash Routh	18901922010	Akash Routh
ML31	Nayan Dutta	18901922044	A
ML32	Agnik Khutia	18901922058	A
ML33	Prithwish Ghosh	18901922054	A
ML34	Soumen Khanra	18901922017	Soumen Khanra
ML35	Saikat Biswas	18901922079	A
ML36	Abhijit Ghosh	18901922035	Abhijit Ghosh
ML37	Tanmoy Datta	18901922038	Tanmoy Datta
ML38	Shreya Rout	18901922094	Shreya Rout
ML39	Subhadip Banerjee	18901922019	Subhadip Banerjee
ML40	Soumyadip Mahato	18901922074	Soumyadip Mahato
ML41	Sayan Bhattacharyay	18901922020	Sayan Bhattacharyay
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 Signature of Faculty

Dr. B. C. Roy College of Pharmacy & AHS, Durgapur
Course Name : Basic Programming with Python and its application in database management, artificial intelligence and machine learning(AI/ML).

Exam Date : 29/01/2024

F.M : 60

Time : 1.30 Hrs

General Instructions : Question paper contains three groups A, B and C. Group A contains MCQ type questions with 1 marks each. Group B contains short answer type questions with 3 marks each and in Group C, you have to write Python program , carries 5 marks each.

A. choose the most appropriate answer from the options given below

- Which type of Programming does Python support?
a) object-oriented programming b) structured programming
c) functional programming d) all of the mentioned
- Is Python case sensitive when dealing with identifiers?
a) no b) yes c) machine dependent d) none of the mentioned
- Is Python code compiled or interpreted?
a) Python code is both compiled and interpreted
b) Python code is neither compiled nor interpreted
c) Python code is only compiled
d) Python code is only interpreted
- What will be the value of the following Python expression?
 $4 + 3 \% 5$
a) 7 b) 2 c) 4 d) 1
- Which of the following is used to define a block of code in Python language?
a) Indentation b) Key c) Brackets d) All of the mentioned
- Which of the following character is used to give single-line comments in Python?
a) // b) # c) ! d) /*
- What are the values of the following Python expressions?
 $2^{(3^2)}$
 $(2^3)^2$
 2^{3^2}
a) 512, 64, 512 b) 512, 512, 512 c) 64, 512, 64 d) 64, 64, 64
- What will be the output of the following code snippet?

```
a = 3  
b = 1  
print(a, b)  
a, b = b, a  
print(a, b)
```


a) 3 1 1 3 b) 1 3 3 1 c) 1 1 3 3 d) none of these
- Which of the following declarations is incorrect in python language?
a) `xyzp = 5000000` b) `x y z p = 5000 6000 7000 8000`
c) `x,y,z,p = 5000, 6000, 7000, 8000` d) `x _ z _ p = 5000,000`



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10. `print("javatpoint"[5:])`
What will be the output of this code?
a) Javatpoint b) java c) point d) None of these
11. `a = True`
`b = False`
`c = False`
if a or b and c:
 `print ("ABC")`
else:
 `print ("abc")`
a) abc b) ABC c) ABC abc d) abc ABC
12. Which of the following is the truncation division operator in Python?
a) | b) // c) / d) %
13. What will be the output:
`a="10"`
`b="20"`
`c=a+b`
`print(c)`
a) 30 b) 1020 c) 2010 d) none of these
14. How many times will Python execute the code inside the following while loop?
`i = 0`
while `i < 0` and `i > 2` :
 `print ("Hello ...")`
 `i = i+1`
a) 0 times b) 1 times c) 2 times d) infinite times
15. Extension of python file is:
a) .python b) .py c) .prog d) None of these

B. Answer the following questions:

- Write the difference between :
(a) = and == (b) "and" and "or" (c) / and // (d) * and **
- Rewrite the following for loop into while loop:
`for a in range(25,500,25):`
 `print(a)`
- What is the significance of "else" in loop explain with example.
- How many return statement can be used in a function? Explain with example.
- Explain actual and formal arguments with example.
- Write Python code to create a Dictionary and display the length of the dictionary.

7. What is the output of the following?

```
i = 1
while True:
    if i%7 == 0:
        break
    print(i)
    i += 1
```

a) 1 2 3 4 5 6 b) 1 2 3 4 5 6 7 c) error d) none of the mentioned

8. what will be the output if value of a is 5

```
def sum(a):
    a=a+10
    print(a)
```

```
a=int(input("enter a number"))
sum(a)
print(a)
```

9. Write python code to input a string and print the first and last character of it.


10. What will be the output?

```
for x in range(6):
    print(x)
else:
    print("Finally finished!")
```

C. Write python program for the following:

1. Cost of an apple is Rs. 10 and Mango is Rs. 8. You have purchased m and n number of Apples and Mangoes. You will get a discount of 2% if your purchase amount is more than Rs. 5000. Write a program to input the value of m and n and display the purchase amount, discount and net payable amount.
2. Input any 10 numbers in a list and display the maximum element.
3. Display the sum of all the numbers between 1 to 100 which are divisible by both 3 and 7.




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Course name: Basic Programming with Python and its Application in Database Management, artificial intelligence and machine learning (AI/ML)

Exam Date: 19.09.2024

FM: 50

Time: 1 hr

(A) Answer any 8 questions (each contains 5 marks)

- (a) How will you import Pandas and Numpy in Jupyter Notebook (write the commands only)?
(b) $ls=[1,2,3,4,5,6]$, convert this list to a Numpy array with a command and save that array as a. Remove the first element from this array and save as new_a. Convert new_a to a list named new_ls.2+3
- (a) There is a .csv file named 'sample.csv' with numbers that looks like:

A
34
9
12
11
7

Import this .csv file as Numpy array and save as csv_array.

- (b) $ls=[4,5,6,7]$. Convert this to a Numpy array, save as a and change this to new_ls that will look like [16,25,36,49] (final output will be as a list).2+3
- (a) $A=[1,2,3,4]$ and $B=[5,6,7,8]$. Convert both these lists to two Numpy arrays and save as nA and nB. What will $nA+nB$, $nA-nB$ and $nA*nB$ look like?
(b) Name $nA+nB$ as newAB. $newAB+3=?$ $newAB*3=?$ $newAB[newAB>5]=?$
2+3=5
- Convert the following list of lists to a Numpy array and save as A. What will be $A[0]$, $A[2,1]$, $A[:,0]$, $A[0,0:3]$ and $A[1,:]$?
 $ls=[[32, 15, 6, 9, 14], [12, 10, 5, 23, 1], [2, 16, 13, 40, 37]]$
5
- $ls=[1,2,3,4,5,6]$. How will you determine maximum, minimum, mean, median, mode and standard deviation from this list with Numpy?
5
- How will you import Pandas in Jupyter Notebook (write the commands only)? Convert the following dictionary to a Pandas dataframe (named as df) using a command.
 $dic={'Column_1':[1,2,3], 'Column_2':[4,5,6], 'Column_3':[7,8,9]}$
Write a command that will remove 'Column_3' from the dataframe and save the new dataframe as newdf.
1+2+2=5
- Write different commands to import a 'comma-separated', 'tab-separated', 'semicolon-separated' and 'space-separated' files named 'sample.csv' with Pandas. Save these files as cdf, tdf, sdf and scdf. Now save the cdf files as a new file named 'newSample.csv' without index.
5
- (a) A dataframe named 'df' contains 25 rows and 3 columns. What will be the output from df.shape command?
(b) A dataframe named 'df' looks like:

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City	Population	Median Age
Maplewood	100000	40
Wayne	350000	33
Forrest Hills	300000	35
Paramus	400000	55
Hackensack	290000	39

Write a command to check its column names. Write a column to sort the values under 'Population' column in ascending order. Write another column to sort the values under 'Median Age' in descending order. Insert a column named 'New_column' with all values a 0.

1+4

9. Suppose you have a Pandas dataframe named 'df' that looks like the following:

	Column_1	Column_2	Column_3
0	1	4	7
1	2	5	8
2	3	6	9

Write the following outputs.

- df.loc[0:1]
- df.iloc[:,:]
- df.iloc[:,1:2]
- df.iloc[1:2,:]
- df.iloc[0,0]

5

10. How will you import Multilayer Perceptron (MLP) classification analyses module from Scikit-learn. Suppose you have a dataframe named df. Write the command to divide this to a training set (80%) and a test set (20%) with Scikit-learn keeping random seed value of 42. Given that the response variable is Y and dependent variables as X, which command(s) will you will you fit these with MLP classification model (using default values). 1+2+2=5

(B) Answer any one question

- What is Perceptron. Diagrammatically represent a Perceptron. What do you mean by Inputs, Weights and Output. 2+2+6=10
- Write short note on various types of machine learning techniques. 10

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Add-on Course : Python and AI/ML 2023 - 24

Merit List Rank	NAME	ROLL NO	Theory(60)	Practical(40)	Total
ML01	Suvajit Bhunia	18901922102	41	36	77
ML02	Santanu Das	18901922104	30	30	60
ML03	Chayanika Kundu	18901922092	40	36	76
ML04	Kushal Saha	18901922088	44	38	82
ML06	Suman Jana	18901922081	31	32	63
ML07	Samadrita Ghosh	18901922015	18	25	43
ML08	Samprati Maity	18901922066	18	28	46
ML09	Surajeet Ghosh	18901922060	44	38	82
ML10	Subham Dey	18901922033	A	A	A
ML11	Abhijit Khutia	18901922037	A	A	A
ML12	Munshi Aman Sahein	18901922036	26	28	54
ML13	Rintu Pal	18901922082	40	34	74
ML14	Ayan Mondal	18901922087	36	31	67
ML15	Tutun Mandal	18901922003	22	22	44
ML17	Ankit Das	18901922090	35	30	65
ML18	Soumyadip Pal	18901922093	42	37	79
ML19	Debjit Chakrabarti	18901922075	A	A	A
ML20	Spandan Ghosh	18901922034	A	A	A
ML21	Saumyadip Kayal	18901922086	31	32	63
ML22	Ritriha Adhikary	18901922021	16	27	43
ML23	Manoj Kumar	18901922002	15	25	40
ML24	Arpita Roy	18901922085	32	32	64
ML25	Souvick Maity	18901922100	17	25	42
ML26	Oindrila Nag	18901922007	46	38	84
ML27	Rakhi Dhua	18901922018	6	25	31
ML28	Bishal Das	18901922084	20	28	48
ML29	Shreyasi Maiti	18901922103	18	28	46
ML30	Akash Routh	18901922010	25	30	55
ML31	Nayan Dutta	18901922044	A	A	A
ML32	Agnik Khutia	18901922058	A	A	A
ML33	Prithwish Ghosh	18901922054	A	A	A
ML34	Soumen Khanra	18901922017	27	30	57
ML35	Saikat Biswas	18901922079	A	A	A
ML36	Abhijit Ghosh	18901922035	23	28	51
ML37	Tanmoy Datta	18901922038	42	36	78
ML38	Shreya Rout	18901922094	19	27	46
ML39	Subhadip Banerjee	18901922019	34	35	69
ML40	Soumyadip Mahato	18901922074	29	33	62
ML41	Sayan Bhattacharyay	18901922020	29	30	59
ML42	Debleena Ghosh	18901922091	27	30	57



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05/11/2024

DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES

M. Pharm / B. Pharm. / D. Pharm. 2nd Year 3rd Semester / Part, 2024



CA / IA No. _____ Date 29/01/24

Name Tanmoy Datta Exam. Cell Sl. No. 18901922038

Paper _____ Paper Code _____

Sl. No. **IE/T/ 10027**

[Signature]
29/01/24
Signature of Invigilator

FOR EVALUATION ONLY

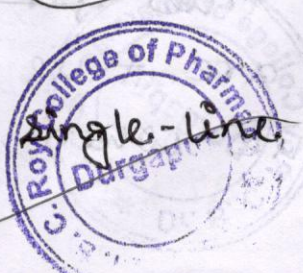
(Marks Obtained)

[Full Marks]

Question Number											Total Marks	Evaluator's Signature
Marks Obtained											42 60	<u>[Signature]</u> 29/01/24

[START ANSWERING FROM THE SPACE BELOW]

- A.
- Python supports 1 a) Object-oriented programming.
 d) all of the mentioned.
 - b) yes python is case sensitive when dealing with identifiers.
 - c) ~~no~~ Python code is only interpreted, compiled.
 - a) 7
 - a) Indentation is used to define a block of code in Python language.
 - b) # is used to give single-line comments in python.



[Signature]
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7. a) 512, 64, 512 ✓
8. a) 31 13 ✓
9. b) $x y z p = 5000 \ 6500 \ 7000 \ 8000$ ✓
10. c) point ✓
11. a) abc ✓
12. b) // ✓
13. b) 1020 ✓
14. a) 0 times ✓
15. b) .py ✓

B.

1. Difference between:-

a) = and == -

'=' is an assignment operator. It is used to assign a value to a specific variable.

'==' is a relational operator. It is used for checking if the two values of their variables are same or not.

b) "and" and "or" -

"and" gives true for both when both conditions are true or false.

"or" gives true when any one condition is true.



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c) / and // -

'/' used in float division.

'//' used in integer division.

d) * and ** -

'*' is used for multiplication of two numbers.

'**' is used for to define power of a number.
e.g. - $2^{**}3$ means 2^3 .

2. a = 25
while $a \leq 500$:

print(a)

a += 25

3. Significance of "else" :-

If a statement doesn't fulfill the condition the 'else' will execute.

Example :-

max. value between two numbers :-

a = 10

b = 20

if $a > b$:

print("max is", a)

else:

print("max is", b)

Output :- max is 20.

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4. Any number of return statement can be used in a function but any one will be executed at a time.

Example:-

```
def grade(m):  
    if m >= 50:  
def cal(a, b):  
    if a > b:  
        return (a + b)  
    else:  
        return (a * b)  
a = int(input("Enter a no. "))  
b = int(input("Enter a no. "))  
print(cal(a, b)).
```

3

5. Actual and formal arguments:-

Actual arguments is those arguments that are used at the time of function call.

Formal arguments is those arguments that are used in function definition.



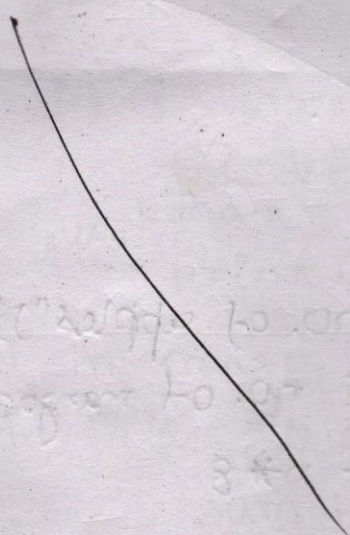
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Example:-

```
def addition(x,y):  
    return(x+y)  
a=int(input("Enter a no"))  
b=int(input("Enter a no"))  
x=addition(a,b)  
print("sum is",x)
```

x,y is formal arguments,
a,b is actual arguments.

6.



7.

d) none of the mentioned.

8.

Ans:- output → 15
5

3



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9.

```

str = input("Enter a string")
print(str[0])
print(str[-1])

```

9.

```

str = input("Enter a string")
print("First character is", str[0])
print("Last character is", str[-1])

```

10.

output →

- 0
- 1
- 2
- 3
- 4
- 5

Finally finished.

C.
1.

```

m = int(input("Enter no. of apples"))
n = int(input("Enter no. of mangoes"))
purchase_amount = m*10 + n*8

```

~~discount =~~

```

if purchase_amount > 5000:

```

$$NA = purchase_amount -$$

$$(purchase_amount * 0.02)$$

~~print~~

```

print("Purchase amount is",

```

```

purchase_amount,

```

```

Discount is 0.02",

```

```

net payable amount is",
NA)

```



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else:

```
print("Purchase amount is", purchase_amount,  
      "Discount is 0", "net payable amount is",  
      purchase_amount)
```

2.

```
L = []
```

```
for i in range(10):
```

```
    x = int(input("Enter a no. "))
```

```
    L.append(x)
```

```
for j in L:
```

```
max = j
```

```
max = j
```

```
    if j > max:
```

```
max = j
```

```
    else: max = j
```

```
print("max is", max)
```

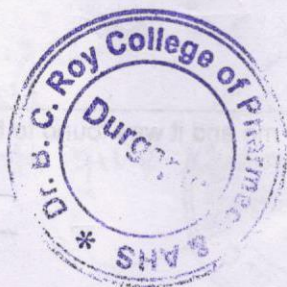
```
sum = 0
```


```
for i in range(1, 100):
```

```
    if i % 3 == 0 and i % 7 == 0:
```

```
        sum += i
```

```
print("sum is", sum)
```




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else:
 print ("purchase amount is", purchase_amount)
 discount is 0.1 * purchase_amount
 purchase_amount = purchase_amount - discount
 print ("purchase amount is", purchase_amount)
 for i in range(10):
 L.append(i)
 for i in L:
 max = i
 if i > max:
 max = i
 print ("max is", max)
 else:
 print ("max is", max)
 for i in range(1, 100):
 if i % 2 == 0 and i % 3 == 0:
 sum += i
 print ("sum is", sum)

Evaluated answer script has been explained to me and it was found to be satisfactory / unsatisfactory.

Tammy Datta
 Signature of Student

DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES

M. Pharm / B. Pharm. / D. Pharm. _____ Year _____ Semester / Part, 20 23-24



CA / IA No. _____ Date 29/01/24

Name Rintu Pal Exam. Cell Sl. No. 18901922082

Paper PYTHON (THEORY) Paper Code _____

Sl. No. **IE/T/**

10028

[Signature]
Signature of Invigilator

FOR EVALUATION ONLY

(Marks Obtained)

[Full Marks]

Question Number											Total Marks	Evaluator's Signature
Marks Obtained											<u>40</u> <u>60</u>	<u>[Signature]</u> 05/01/24

[START ANSWERING FROM THE SPACE BELOW]

1. Python supports ~~(d) all of the mentioned~~ (a) object oriented programming.
2. (b) Yes Python is case sensitive when dealing with identifiers.
3. (c) Python code is only compiled.
4. $4 + 3 \times 5 \Rightarrow 7$ — (a)
5. To define a block code in Python Language ~~(d) all of the mentioned.~~ (a) indentation used
6. (b) # is used to give a single line comment.
7. (a) 512, 64, 512
8. (a) 31 12.
9. ~~(a) 1000 2000 3000 4000~~ (b) n y 2 p = 5000 6000 7000 8000



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- 10] (c) point ✓
- 11. (b) ABC ✓
- 12] (b) 11 ✓
- 13] (b) 1020 ✓
- 14] (a) 0 times. ✓
- 15] (b) .py ✓

B] Difference between

(a) = and ==
 = \Rightarrow is used to assign a value to the specific variable
 == \Rightarrow is used to check the value which is equal or not. Assignmental operator

(b) "and" and "or"
 "and" \Rightarrow gives true when both the conditions are true
 "or" \Rightarrow gives true if one of the conditions is true.

(c) / and //

/ \Rightarrow is used to divide two variable, it may be integer or float
 // \Rightarrow used to make an integer division.

(d) * and **

* \Rightarrow is used to multiply two variable, $a * b = a \times b$.
 ** \Rightarrow is used to define the power of variables
 $a ** b \Rightarrow a^b$.

2) $a = 25$
while $a \leq 500$:
print(a)

2 $a = a + 25$

3) Significance of 'else'

→ If a statement doesn't fulfill the condition then it will work, and then print the string in the condition under else.

Ex input any two no. and display the max.

$a = \text{int}(\text{input}(\text{"Enter a no"}))$

$b = \text{int}(\text{input}(\text{"Enter a no"}))$

if $a > b$:

print("max = ", a)

else:

print("max = ", b)

4) Any number of return statement can be used in function but it will ~~exec~~ execute one time.

Example!

def square(n, y, z):

return (n*n, y*y, z*z)

$n = \text{int}(\text{input}(\text{"Enter a no"}))$

$y = \text{int}(\text{input}(\text{"Enter a no"}))$

$z = \text{int}(\text{input}(\text{"Enter a no"}))$

$a, b, c = \text{square}(n, y, z)$

print(a, b, c)



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Example 1

```
def max(a, b):  
    if a > b:  
        return a  
    else:  
        return b.
```

```
a = int(input("Enter a no"))  
b = int(input("Enter a no"))  
res = max(a, b)  
print("max", res)
```

⑤ Actual Argument

The arguments used which is used during function call is called actual argument.

Formal Arguments

The arguments which is used during function definition is called formal arguments.

Example 2

```
def addition(x, y):  
    return(x + y)
```

```
a = int(input("Enter a no"))  
b = int(input("Enter a no"))  
res = addition(a, b)  
print(res)
```

* here a & b is the actual arguments
and x, y is the formal arguments

① ② ③ error.

⑧ ① 15 ② 5

3

```

⑨ int string = input ("Enter a string");
len(string)
Print (string[0])
Print (string[000])

```

3

⑩ Output!

- 0
- 1
- 2
- 3
- 4
- 5

Finally finished!

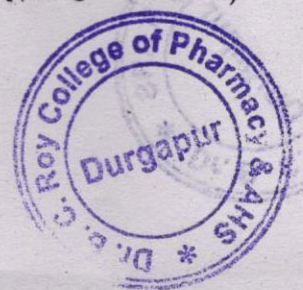
3

```

⑪ m = int (input ("Enter a no"))
n = int (input ("Enter a no"))
T = 10 * m + 8 * n
if T > 5000:
    NP = T * 0.98
else: NP = T
Print ("Purchase amount", T)
Print ("Discount", T - NP)
Print ("Net payable amount", NP)

```

2/2




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```

2) L = []
   for i in range(10):
       n = int(input("Enter a no"))
       L.append(n)
   for i in L:
       max = L[0]
       if i > max:
           max = i
   print(max)

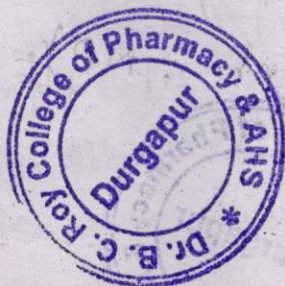
```

```

3) i = 1
   sum = 0
   while i <= 100:
       if i % 3 == 0 and i % 7 == 0:
           sum = sum + i
   print("Sum is =", sum)

```

3/2



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M. Pharm / B. Pharm. / D. Pharm. 2nd Year _____ Semester / Part, 20 21

CA / IA No. _____ Date 29/1/24

Name Soumyadip Pal Exam. Cell Sl. No. 1890192209

Paper _____ Paper Code _____

Sl. No. **IE/P/ 12133**

[Signature]
29/01/24
Signature of Invigilator



FOR EVALUATION ONLY (Marks Obtained)

[Full Marks]

Question Number											Total Marks	Evaluator's Signature
											37	<u>[Signature]</u> 29/01/24

[START ANSWERING FROM THE SPACE BELOW]

Q) Input a string and check whether it is palindrome or not.

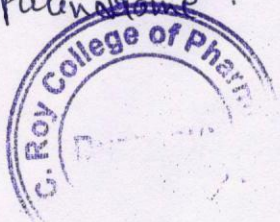
```
⇒ str = input("enter a string ==>>>")
n = str[::-1]
if n == str:
    print("palindrome")
else:
    print("not palindrome")
```

output

1) enter a str ==>>>: madam
↳ palindrome

2) enter a str ==>>>: a
↳ not palindrome

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Course Name : Basic Programming with Python and its application in database management, artificial intelligence and machine learning(AI/ML).

Exam Date : 29/01/2024

F.M : 40

Practical

Time : 1.00 Hrs

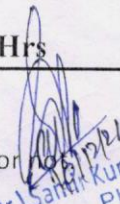
Q. Write a python program to input a string and a string and check whether it is palindrome or not.

A string is palindrome if it is same from both the sides

Eg. Input → madam Output → palindrome

Input → abcdabx Output → Not palindrome.




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M. Pharm / B. Pharm. / D. Pharm. 2nd Year 3rd Semester / Part, 20 24



CA / IA No. _____ Date 29/1/24

Name Subhadip Banerjee Exam. Cell Sl. No. 18901922019

Paper Python Paper Code _____

Sl. No. **IE/P/ 12109**

[Signature]
29/01/24
Signature of Invigilator

FOR EVALUATION ONLY (Marks Obtained)

[Full Marks]

Question Number												Total Marks	Evaluator's Signature
												35	<u>[Signature]</u>

[START ANSWERING FROM THE SPACE BELOW]

INPUT

i = []

for x in range(10):

a = int(input("enter a no"))

i.append(a)

print(i)

b = int(input("enter a no"))

if b in i:

print("present", i.index(a))

else:

print("not present")

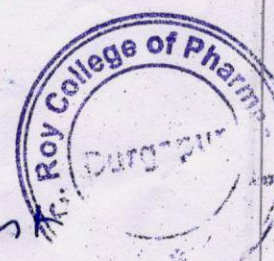
Output

L = [33, 44, 55, 66, 76, 12, 34, 56, 59, 11]

Inputted number is : 44

Output -> Present
present -> 2

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Inputted number is : 86

Output → Present present at 4

Inputted number is : 19

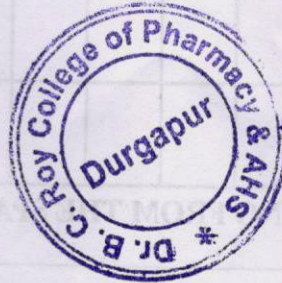
Output → Not present

Inputted number is : 11

Output → Present, present → 10

[Handwritten signature]
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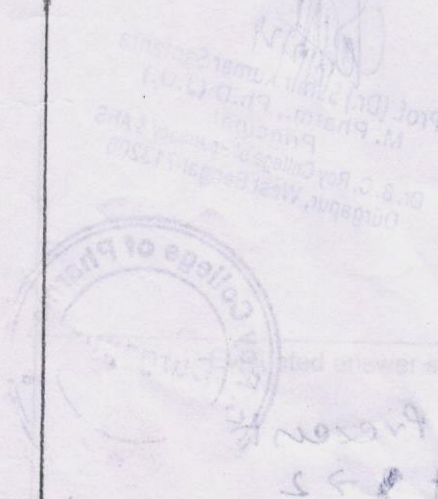


Signature	Total Marks
<i>[Handwritten signature]</i>	32

if b in i :
 print ("present")
 else:
 print ("not present")

input = int(input("Enter a number"))
 a = int(input("Enter a number"))
 b = int(input("Enter a number"))

Inputted number is : 11
 Output → Present



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Exam Date : 29/01/2024

F.M : 40

Practical

Time : 1.00 Hrs

Q. Write a python program to implement linear search algorithm, i.e, input any 10 numbers in a list and input a number. find whether the inputted number is present in the list or not. If present the display the position.

Eg. L=[10,7,8,90,56,34,66,71,43,12]

Inputted number is : 71 Output → element found at position: 8

Inputted number is : 33 Output → element not found




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Finalized answer sheet has been uploaded to the link below to be downloaded by the students.

Inputted number is : 71

Output → element found at position: 8

Signature of Student

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This is to certify that **Soumyadip Mahato**, University Roll No **18901922074**, has been awarded this certificate for successful completion of the Add-on course on “*Basic programming with python and its application in database management, artificial intelligence and machine learning (AI/ML)*” for 40 hours (4 credits) organized by Internal Quality Assurance Cell (IQAC), Dr. B.C. Roy College of Pharmacy & Allied Health Sciences (BCRCP), Durgapur, WB, India from 28th August, 2023 to 06th May, 2024 with a score of **107** out of 200.

Prof. Samir Kr. Samanta
Principal, BCRCP,
Durgapur, WB, India

Prof. Subhabrata Ray,
In-Charge, IQAC, BCRCP,
Durgapur, WB, India

Dr. Amit Kumar Halder,
Course Coordinator, BCRCP,
Durgapur, WB, India

Mr. Soumen Banerjee,
Course Coordinator, BCRCP,
Durgapur, WB, India



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Certificate of Appreciation

This is to certify that **Soumyadip Pal**, University Roll No **18901922093**, has been awarded this certificate for successful completion of the Add-on course on “*Basic programming with python and its application in database management, artificial intelligence and machine learning (AI/ML)*” for 40 hours (4 credits) organized by Internal Quality Assurance Cell (IQAC), Dr. B.C. Roy College of Pharmacy & Allied Health Sciences (BCRCP), Durgapur, WB, India from 28th August, 2023 to 06th May, 2024 with a score of **142** out of 200.

Prof. Samir Kr. Samanta
Principal, BCRCP,
Durgapur, WB, India

Prof. Subhabrata Ray,
In-Charge, IQAC, BCRCP,
Durgapur, WB, India

Dr. Amit Kumar Halder,
Course Coordinator, BCRCP,
Durgapur, WB, India

Mr. Soumen Banerjee,
Course Coordinator, BCRCP,
Durgapur, WB, India



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Certificate of Appreciation

This is to certify that **Subhadip Banerjee**, University Roll No **18901922019**, has been awarded this certificate for successful completion of the Add-on course on “*Basic programming with python and its application in database management, artificial intelligence and machine learning (AI/ML)*” for 40 hours (4 credits) organized by Internal Quality Assurance Cell (IQAC), Dr. B.C. Roy College of Pharmacy & Allied Health Sciences (BCRCP), Durgapur, WB, India from 28th August, 2023 to 06th May, 2024 with a score of **129** out of 200.

Prof. Samir Kr. Samanta
Principal, BCRCP,
Durgapur, WB, India

Prof. Subhabrata Ray,
In-Charge, IQAC, BCRCP,
Durgapur, WB, India

Dr. Amit Kumar Halder,
Course Coordinator, BCRCP,
Durgapur, WB, India

Mr. Soumen Banerjee,
Course Coordinator, BCRCP,
Durgapur, WB, India



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Certificate of Appreciation

This is to certify that **Suvajit Bhunia**, University Roll No **18901922102**, has been awarded this certificate for successful completion of the Add-on course on “*Basic programming with python and its application in database management, artificial intelligence and machine learning (AI/ML)*” for 40 hours (4 credits) organized by Internal Quality Assurance Cell (IQAC), Dr. B.C. Roy College of Pharmacy & Allied Health Sciences (BCRCP), Durgapur, WB, India from 28th August, 2023 to 06th May, 2024 with a score of **137** out of 200.

Prof. Samir Kr. Samanta
Principal, BCRCP,
Durgapur, WB, India

Prof. Subhabrata Ray,
In-Charge, IQAC, BCRCP,
Durgapur, WB, India

Dr. Amit Kumar Halder,
Course Coordinator, BCRCP,
Durgapur, WB, India

Mr. Soumen Banerjee,
Course Coordinator, BCRCP,
Durgapur, WB, India



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Certificate of Appreciation

This is to certify that **Tanmoy Datta**, University Roll No **18901922038**, has been awarded this certificate for successful completion of the Add-on course on “*Basic programming with python and its application in database management, artificial intelligence and machine learning (AI/ML)*” for 40 hours (4 credits) organized by Internal Quality Assurance Cell (IQAC), Dr. B.C. Roy College of Pharmacy & Allied Health Sciences (BCRCP), Durgapur, WB, India from 28th August, 2023 to 06th May, 2024 with a score of **175** out of 200.

Prof. Samir Kr. Samanta
Principal, BCRCP,
Durgapur, WB, India

Prof. Subhabrata Ray,
In-Charge, IQAC, BCRCP,
Durgapur, WB, India

Dr. Amit Kumar Halder,
Course Coordinator, BCRCP,
Durgapur, WB, India

Mr. Soumen Banerjee,
Course Coordinator, BCRCP,
Durgapur, WB, India

To
The In-Charge IT Cell
Dr.B.C.Roy College of Pharmacy and AHS
Durgapur

Date: 06/12/2024

Comprehensive Course Completion Report on Basic programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML).

This report summarizes the key aspects and learning outcomes from completing a comprehensive course on "Basic programming with Python and its application in database management, artificial intelligence and machine learning (AI/ML)".

The course aimed at equipping learners with the fundamental and advanced knowledge required to develop AI and ML solutions using Python.

The course started on dated 28th August 2023 after notification from The Principal dated 9th August 2023. Total forty students were enrolled from B.Pharm 2nd Year (Academic year 2023-2024) on the basis of merit. The course was divided in to two parts. First 20 credit hours conducted by Mr. Soumen Banerjee(Asst.Professor, BCRCP) and the remaining 20 credit hours was conducted by Dr. Amit Kumar Halder (Asso. Professor, BCRCP).


One examination was taken after completion of first part and a final examination was taken at the end of the course.

The course was completed on 6th May 2024 and 18 certificates were distributed to the students who successfully completed the course.

Coordinators Of the course

- 1) Dr. Amit Kumar Halder
- 2) Mr. Soumen Banerjee

Amit Kumar Halder 06/12/24
Soumen Banerjee 06/12/24


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

