

Certificate course on Python Programming

Organized by

Department of Computer Science & BCA

Kharagpur College

Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)

Attendance Sheet

Date- 06/06/22

Name of the Teacher: SUBHADIP MUKHERJEE

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra Kar
6	007	ANUVAB SAHU	Anuvab Sahu
7	009	AVIJIT SUI	Arijit Sui
8	010	AYAN BISWAS	Ayan Biswas
9	011	AYON MONDAL	Ayon Mondal
10	012	B SRUTHI	ABSENT
11	014	BHIM HANSDA	Bhim Hansda
12	017	DEEPAK SINGH	Deepak Singh
13	018	DIPAYAN CHOWDHURY	Dipayan Chowdhury
14	019	HIMANSHU RAY	Himanshu Ray
15	020	JEET GOPE	Jeet Gope
16	021	JOY DUTTA	Joy Dutta
17	022	KARAN NATH MAHAPATRA	Karan nath mahapatra
18	023	KOUSHIK SINGHA MAHAPATRA	Koushik SMD
19	024	KUMARJIT MONGAL	Kumarjit Mongal
20	025	KUNAL MONDAL	Kunal Mondal
21	026	MANOJIT RAUL	Manojit Raul
22	027	PARTHIB HALDAR	Parthib Haldar
23	029	PUJA DAS	Puja Das
24	030	PUSKAR GHOSH	Puskar Ghosh
25	031	RAHUL KUIRY	Rahul Kury
26	032	RAHUL SINGHA	Rahul Singha
27	033	RAJA DAS	Raja Das
28	034	SANDIP KUMAR KUNDU	Sandip Kumar Kundu

29	035	SAYANDIP BOXI	Sayandip Boxi
30	036	SHREYA RANI DE	Shreya De
31	037	SHREYA UPADHYAY	Shreya Upadhyay
32	038	SHREYASI SARKAR	Shreyasi Sarkar
33	039	SK AFTAB	Sk. Aftab
34	040	SK RAKIUR RAHAMAN	Sk Rakiur Rahman
35	041	SOMNATH BANERJEE	Somnath Banerjee
36	044	SUBHASH CHANDRA ADAK	Subhash Chandra Adak
37	046	SUDIPTA KOTAL	Sudipta Kotal
38	047	SUJIT HEMBRAM	Sujit Hembram
39	048	SUMAN MANDAL	Suman Mandal
40	049	SUNIL BISUI	Sunil Bisui
41	050	SUPRIYO KUNDU	Supriyo Kundu
42	052	ZIAN NAWAZ	Zian Nawaz



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Attendance Sheet

Date- 07/06/22

Name of the Teacher: SUBHADIP MUKHERJEE

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
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24	030	PUSKAR GHOSH	Puskar Ghosh
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32	038	SHREYASI SARKAR	Shreyasi Sarkar
33	039	SK AFTAB	SK. Aftab
34	040	SK RAKIUR RAHAMAN	SK Rakiur Rahman
35	041	SOMNATH BANERJEE	Somnath Banerjee
36	044	SUBHASH CHANDRA ADAR	Subhash Chandra Adak
37	046	SUDIPTA KOTAL	Sudipta Kotal
38	047	SUJIT HEMBRAM	Sujit Hembram
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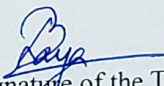
Attendance Sheet

Date- 02/06/22

Name of the Teacher: BISHAJIT LAYA

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek Sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
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27	033	RAJA DAS	Raja Das
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31	037	SHREYA UPADHYAY	Shreyadipadhyay
32	038	SHREYASI SARKAR	Shreyasi Sarkar
33	039	SK AFTAB	Sk. Aftab
34	040	SK RAKIUR RAHAMAN	S.R. Rahman
35	041	SOMNATH BANERJEE	Somnath Banerjee
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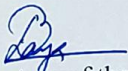
Attendance Sheet

Date- 01/06/22

Name of the Teacher: Biswajit Laya

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek Sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
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Attendance Sheet

Date- 21/05/22

Name of the Teacher: ALOK HALDAR

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
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Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)

Attendance Sheet

Date- 19/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra Kar
6	007	ANUVAB SAHU	Anuvab Sahu
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25	031	RAHUL KUIRY	Rahul kuiry
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Date- 17/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra kar
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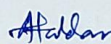
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Date- 14/05/22

Name of the Teacher: ALOK HALDAR

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1	002	ABHISHEK SHARMA	Abhishek Sharma
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41	050	SUPRIYO KUNDU	Supriyo Kundu
42	052	ZIAN NAWAZ	Ziam Nawaz

Aftab.

Signature of the Teacher

Certificate course on Python Programming

Organized by

Department of Computer Science & BCA

Kharagpur College

Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)

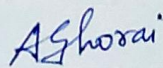
Attendance Sheet

Date- 12/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra Kar
6	007	ANUVAB SAHU	Anuvab Sahu
7	009	AVIJIT SUI	Avijit Sui
8	010	AYAN BISWAS	Ayan Biswas
9	011	AYON MONDAL	Ayon Mondal
10	012	B SRUTHI	ABSENT
11	014	BHIM HANSDA	Bhim Hansda
12	017	DEEPAK SINGH	Deepak Singh
13	018	DIPAYAN CHOWDHURY	Dipayan Chowdhury
14	019	HIMANSHU RAY	Himanshu Ray
15	020	JEET GOPE	Jeet Gope
16	021	JOY DUTTA	Joy Dutta.
17	022	KARAN NATH MAHAPATRA	Karan nath mahapatra.
18	023	KOUSHIK SINGHA MAHAPATRA	Koushik S.MP
19	024	KUMARJIT MONGAL	Kumarjit Mongal
20	025	KUNAL MONDAL	Kunal Mondal
21	026	MANOJIT RAUL	Manojit Raul
22	027	PARTHIB HALDAR	Parthib Haldar.
23	029	PUJA DAS	Puja Das
24	030	PUSKAR GHOSH	Puskal Ghosh
25	031	RAHUL KUIRY	Rahul Kuiry
26	032	RAHUL SINGHA	Rahul Singha.
27	033	RAJA DAS	Raja Das
28	034	SANDIP KUMAR KUNDU	Sandip Kumar Kundu

29	035	SAYANDIP BOXI	Sayandip Boxi
30	036	SHREYA RANI DE	Shreya De
31	037	SHREYA UPADHYAY	Shreya Upadhyay
32	038	SHREYASI SARKAR	Shreyasi Sarkar
33	039	SK AFTAB	SK. Aftab
34	040	SK RAKIUR RAHAMAN	Sk Rakiur Rahman
35	041	SOMNATH BANERJEE	Somnath Banerjee
36	044	SUBHASH CHANDRA ADAK	Subhash Chandra Adak
37	046	SUDIPTA KOTAL	Sudipta Kotal
38	047	SUJIT HEMBRAM	Sujit Hembram
39	048	SUMAN MANDAL	Suman Mandal
40	049	SUNIL BISUI	Sunil Bisui
41	050	SUPRIYO KUNDU	Supriyo Kundu
42	052	ZIAN NAWAZ	Zian Nawaz


 Signature of the Teacher



KHARAGPUR COLLEGE

KHARAGPUR

ESTD. : 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur,
P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

**Geo-tagged photos of Certificate course on Python Programming conducted by
Department of BCA from 11.05.2022 to 14.06.2022**



ATTESTED

Principal
Kharagpur College

Kharagpur College
Department of Computer Science & BCA
Date of Commencement: 11.05.2022
Class schedule for the Certificate Course on
“Python Programming”

Sl. No.	Topic	Resource Person	Theory/ Practical	Duration (Hours)	Date and time
1	Introduction	Prof. Alok Halder	Both	3	11.05.2022
2	Introduction to Python	Prof. Anudyuti Ghorai	Both	3	12.05.2022
3	Elements of Python	Prof. Alok Halder	Both	3	14.05.2022
4	Elements of Python	Prof. Anudyuti Ghorai	Both	3	17.05.2022
5	Conditional Statement	Prof. Anudyuti Ghorai	Both	3	19.05.2022
6	Control Statement	Prof. Alok Halder	Both	3	21.05.2022
7	Sequential data types	Prof. Biswajit Laya	Both	3	01.06.2022
8	Functions and Modules	Prof. Biswajit Laya	Both	3	02.06.2022
9	File Handling	Prof. Subhadip Mukherjee	Both	3	06.06.2022
10	Data Visualization	Prof. Subhadip Mukherjee	Both	3	07.06.2022
11	Evaluation	Prof. Alok Halder Prof. Anudyuti Ghorai	Practical	½	14.06.2022

Alok Halder 06/05/22
Alok Halder
Course Coordinator and Head,
Department of Computer Science & BCA

(B) 06/05/22
Principal
Kharagpur College



Principal
Kharagpur College

Kharagpur College

Dept. Computer Science & BCA

Certificate course on Python Programming

Course Overview

This course covers Basic to Advanced topics of Python language.

Entry Requirement : (10 + 2) or equivalent qualified

Course Duration : 10 days (30 hrs.)

Mode of Training : Face to face Instructor led Training

Course Content

Module1:Introduction • Problem solving, Algorithm, flowchart • Types of language, translator	Module6:Control Statement • While loop • For loop
Module 2: Introduction to Python • Features of python • Application • Python installation • Python Shell, Python IDLE • Basic programming demo	Module7:Sequential data types • List • Tuples • Strings • Bytes and bytes array • Set • dictionary
Module3:Elements of Python • Python variables, Identifiers • Constants, literal, token, keyword • Data types • Operators: arithmetic, relational, logical	Module8:functions and modules • Function • Function declaration • Function definition • Function call • Function parameters • Return statement • Types of function parameters
Module4:Elements of Python • Operators: bitwise, Identity, membership • Operators Precedence and associativity • Expression in Python	Module9:File Handling • Introduction • File path • Types of files • Opening and closing files • File positions • Renaming and deleting files
Module5: Conditional statement • If • If - else • If -elif -else • Nested if	Module10:Data visualization • Matplotlib • Scatter plot • Line chart • Bar chart • Histogram

Alok Halder

Alok Halder

Course Coordinator and Head,
Department of Computer Science & BCA



02/09/22

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Kharagpur College

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Kharagpur College

Kharagpur College

Dept. Computer Science & BCA

Certificate course on Python Programming

Date 14/06/2022

Time : 30 minutes Full Marks-15

Answer all questions

1X 15 =15

1. The `splitlines()`, splits lines in strings on which characters?
 - a. Whitespace
 - b. Comma
 - c. Newline
 - d. Colon
2. Which slice operation will reverse the list?
 - a. Lists `[-1::]`
 - b. Numbers `::-1]`
 - c. Numbers `[:-1:]`
 - d. List `[9:8:1]`
3. Which operation is used for list cloning?
 - a. Assignment
 - b. Slice
 - c. Comparison
 - d. Repetition
4. Which data structure allows you to return multiple values from a function?
 - a. List
 - b. Tuple
 - c. Dictionary
 - d. Set
5. NumPy arrays can be created from _____?
 - a. Python list
 - b. Python tuples
 - c. Individual integers
 - d. All of these
6. Which function will be used to convert a tuple into a NumPy array?
 - a. `np.array()`
 - b. `np.arange()`
 - c. `np.linspace()`
 - d. `np.flatten()`
7. Which function is used to save the plot?
 - a. `Saveplot()`
 - b. `savegraph()`
 - c. `savefig()`
 - d. `savedraw()`
8. Default value of `histtype` in the `hist()` function is _____
 - a. Bar
 - b. Barstacked
 - c. Step
 - d. Stepfilled()

9. Which argument of the sort function applies changes in the data frame passed to the function?
- Kind
 - Na_position
 - Inplace
 - Axis
10. Arbitrary arguments have which symbol in the function definition before the parameter name?
- &
 - #
 - %
 - *
11. Modules are files saved with _____ extension.
- .py
 - Mod
 - Mdl
 - Imp
12. What is the output of this code?
- ```
import random as r
print(random.randint(1, 10))
```
- An error occurs
  - 1
  - 10
  - any random number
13. This imports \* statement import all names in the module except those beginning with \_\_\_\_\_
- %
  - \$
  - 
  - !
14. If List = [1,2,3,4,5,6,7,8,9,10] then print List [8:4:-1] will give
- [2,3,4,5]
  - [9,8,7,6]
  - [6,7,8,9]
  - [5,4,3,2]
15. Which function returns a tuple of two values?
- divmod()
  - input()
  - eval()
  - tuple()

Name: SUPRIYO KUNDU

Roll No:

14  
15

**Kharagpur College**  
Dept. Computer Science & BCA  
**Certificate course on Python Programming**

Date 14/06/2022

Time : 30 minutes      Full Marks-15

Answer all questions

1X 15 =15

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  - b. Comma
  - ☒ c. Newline
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- c. Step  
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9. Which argument of the sort function applies changes in the data frame passed to the function?  
a. Kind  
b. Na\_position  
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d. Axis
10. Arbitrary arguments have which symbol in the function definition before the parameter name?  
a. &  
b. #  
c. %  
✓ d. \*
11. Modules are files saved with \_\_\_\_\_ extension.  
✓ a. .py  
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c. Mdl  
d. Imp
12. What is the output of this code?  
import random as r  
print(random.randomint(1, 10 ))  
a. An error occurs  
b. 1  
c. 10  
✓ d. any random number
13. This imports \* statement import all names in the module except those beginning with \_\_\_\_  
a. %  
b. \$  
✓ c. \_  
d. !
14. If List = [1,2,3,4,5,6,7,8,9,10] then print List [8:4:-1] will give  
a. [2,3,4,5]  
✓ b. [9,8,7,6]  
c. [6,7,8,9]  
d. [5,4,3,2]
15. Which function returns a tuple of two values?  
✓ a. divmod()  
b. input()  
c. eval()  
d. tuple()

Name: SHAREYA DE

Roll No: 36

14  
15

**Kharagpur College**  
Dept. Computer Science & BCA  
**Certificate course on Python Programming**

Date 14/06/2022

Time : 30 minutes Full Marks-15

Answer all questions

1X 15 =15

1. The splitlines(), splits lines in strings on which characters?
  - a. Whitespace
  - b. Comma
  - ☒ c. Newline ✓
  - d. Colon
2. Which slice operation will reverse the list?
  - a. Lists [ -1:: ]
  - ☒ b. Numbers [::-1 ] ✓
  - c. Numbers [-1:]
  - d. List [9:8:1]
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  - a. Assignment
  - ☒ b. Slice ✓
  - c. Comparison
  - d. Repetition
4. Which data structure allows you to return multiple values from a function?
  - a. List
  - ☒ b. Tuple ✓
  - c. Dictionary
  - d. Set
5. NumPy arrays can be created from \_\_\_\_\_?
  - ☒ a. Python list
  - b. Python tuples ✗
  - c. Individual integers
  - d. All of these
6. Which function will be used to convert a tuple into a NumPy array?
  - ☒ a. np.array() ✓
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  - c. np.linspace()
  - d. np.flatten()
7. Which function is used to save the plot?
  - a. Saveplot()
  - b. savegraph()
  - ☒ c. savefig() ✓
  - d. savedraw()
8. Default value of histtype in the hist() function is \_\_\_\_\_
  - a. Bar
  - ☒ b. Barstacked ✓

- c. Step
- d. Stepfilled()

9. Which argument of the sort function applies changes in the data frame passed to the function?

- a. Kind
- b. Na\_position
- ☒ c. Inplace
- d. Axis

10. Arbitrary arguments have which symbol in the function definition before the parameter name?

- a. &
- b. #
- c. %
- ☒ d. \*

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- c. Mdl
- d. Imp

12. What is the output of this code?

```
import random as r
print(random.randint(1, 10))
```

- ☒ a. An error occurs
- b. 1
- c. 10
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13. This imports \* statement import all names in the module except those beginning with \_\_\_\_\_

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- d. [5,4,3,2]

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- ☒ a. divmod()
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- c. eval()
- d. tuple()

**Name:** KUMARJIT MONGDAL

**Roll No:** 024

14  
15

**Kharagpur College**  
Dept. Computer Science & BCA  
**Certificate course on Python Programming**

Date 14/06/2022

Time : 30 minutes      Full Marks-15

Answer all questions

1X 15 =15

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- ☒ a. divmod()
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- c. eval()
- d. tuple()

Name: AYAN BISWAS

Roll No: 010

14  
15

# Kharagpur College

Dept. Computer Science & BCA

## Certificate course on Python Programming

Date 14/06/2022

Time : 30 minutes Full Marks-15

Answer all questions

1X 15 =15

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15. Which function returns a tuple of two values?

- ☒ a. divmod()
- b. input()
- c. eval()
- d. tuple()

Name: ABHISHEK SHARMA

Roll No: 002

14  
15

## Kharagpur College

Dept. Computer Science & BCA

### Certificate course on Python Programming

Date 14/06/2022

Time : 30 minutes Full Marks-15

Answer all questions

1X 15 =15

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  - ☒ b. Barstacked

- c. Step
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- b. Na\_position
- ☒ c. Inplace
- d. Axis

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- a. &
- b. #
- c. %
- ☒ d. \*

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- ☒ a. divmod()
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- d. tuple()

Sl. No. : KGP/BCA/2022/05/045

# Kharagpur College



**Shreya De**

This is to certify that.....

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **"Python Programming"**.....

held between **11-May-2022** and **14-Jun-2022**..... organized by.....

**Department of Computer Science and BCA**

**Kharagpur College, Kharagpur, Paschim Medinipur, West Bengal.**

Alok Haldar.

**Co-ordinator**  
**(Kharagpur College)**

(Signature)

**Principal**  
**(Kharagpur College)**

Sl. No. : KGP/BCA/2022/05/032

# Kharagpur College



**Supriyo Kundu**

This is to certify that.....

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **"Python Programming"**.....

held between **11-May-2022** and **14-Jun-2022**..... organized by.....

**Department of Computer Science and BCA**

**Kharagpur College, Kharagpur, Paschim Medinipur, West Bengal.**

Alok Haldar.

**Co-ordinator**  
**(Kharagpur College)**

(Signature)

**Principal**  
**(Kharagpur College)**

Sl. No. : KGP/BCA/2022/05/044

# Kharagpur College



**Kumarjit Mongal**

This is to certify that.....

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **"Python Programming"**.....

held between **11-May-2022** and **14-Jun-2022** organized by.....

**Department of Computer Science and BCA**

**Kharagpur College, Kharagpur, Paschim Medinipur, West Bengal.**

Alok Haldar.

**Co-ordinator**  
**(Kharagpur College)**

(Signature)

**Principal**  
**(Kharagpur College)**

Sl. No. : KGP/BCA/2022/05/042

# Kharagpur College



**Abhishek Sharma**

This is to certify that.....

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **"Python Programming"**.....

held between **11-May-2022** and **14-Jun-2022** organized by.....

**Department of Computer Science and BCA**

**Kharagpur College, Kharagpur, Paschim Medinipur, West Bengal.**

Alok Haldar.

**Co-ordinator**  
**(Kharagpur College)**

(Signature)

**Principal**  
**(Kharagpur College)**

Sl. No. : KGP/BCA/2022/05/038

# Kharagpur College



**Ayon Mondal**

This is to certify that.....

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **"Python Programming"**.....

held between **11-May-2022** and **14-Jun-2022**..... organized by.....

**Department of Computer Science and BCA**

**Kharagpur College, Kharagpur, Paschim Medinipur, West Bengal.**

**Alok Haldar.**

**Co-ordinator  
(Kharagpur College)**

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**Principal  
(Kharagpur College)**