# SHREE H. N. SHUKLA COLLEGE OF I.T. & MGMT.
### (AFFILIATED TO SAURASHTRA UNIVERSITY)

# ASSIGNMENT — CHAPTER -1
# JULY – 2024

**Stream: BCA/BSCIT SEM - 5**                    **Subject: Programming in Python**
### TOTAL – 30 MARKS

## Q-1(A) Attempt the following.                                      (5)
1. _____is founder of Python.
2. Tuple is_____object of Python.
3. Python prompt can be represented by_____.
4. IDLE stands for _____.
5. What is the output of type(5)?

## Q-1(B) Attempt the following.                                      (6)
1. Give difference between List and Tuple.
2. Explain Mutability in brief.
3. Explain Branching statement with Example.

## Q-1(C) Attempt the following.                                      (9)
1. Explain Dictionary with suitable example.
2. Explain Recursion with Example.
3. Explain Module with Suitable Example.

## Q-1(D) Attempt the following.                                      (10)
1. Explain Function with Scoping.
2. Write note on iteration.

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# ASSIGNMENT — CHAPTER - 2
# AUGUST – 2024

**Stream: BCA/BSCIT SEM - 5**                    **Subject: Programming in Python**
**TOTAL – 30 MARKS**

**Q-2(A) Attempt the following.**                                        **(5)**
1. ADT Stands for _____.
2. Assertions are carried out by _____ statement.
3. _____ statement support handling of any Exception.
4. In python , we can represent private members/attributes using
   _____.
5. _____ is divide and conquer algorithm.


**Q-2(B) Attempt the following.**                                        **(6)**
1. Explain List ADT in brief.
2. Explain Encapsulation in brief.
3. Explain Hash table in brief.


**Q-2(C) Attempt the following.**                                        **(9)**
1. Explain Assertion with suitable example.
2. Explain Sorting Algorithm (any one).
3. Explain Searching Algorithm (any one).


**Q-2(D) Attempt the following.**                                        **(10)**
1. Explain Inheritance with Example.
2. Write note on Exception Handling.

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## ASSIGNMENT — CHAPTER -3
## AUGUST – 2024

**Stream: BCA/BSCIT SEM - 5**  **Subject: Programming in Python**
### TOTAL – 30 MARKS

## Q-3(A) Attempt the following. (5)
1. _____is python module that provide tools for scientific computing.
2. _____method display graphical window on computer screen.
3. PyLab is a _____.
4. When stores PyLab figure , default extension is _____.
5. Write down command to install MatPlotLib.

## Q-3(B) Attempt the following. (6)
1. What is Memorization?
2. Explain Plotting using Mortgages.
3. Explain 0/1 Knapsack Algorithm.

## Q-3(C) Attempt the following. (9)
1. Explain Fibonacci Sequence with Example.
2. Briefly Explain PyLab(How to Plot using PyLab).
3. Explain MatPlotLib.

## Q-3(D) Attempt the following. (10)
1. Explain divide and conquer Algorithm.
2. Write a python script that display simple plotting area (simple line) by displaying appropriate title , labels on X axis and Y axis.

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# ASSIGNMENT — CHAPTER - 4
# SEPTEMBER – 2024

**Stream: BCA/BSCIT SEM - 5**         **Subject: Programming in Python**
## TOTAL – 30 MARKS

**Q-4(A) Attempt the following.**                                   **(5)**
1. _____is an infinite loop used to run the application in tkinter.
2. _____provide variety of GUI elements used to build interface.
3. _____is a python module that can be used for opening URLs.
4. What is socket?
5. _____module can be used to validate the IP address.


**Q-4(B) Attempt the following.**                                   **(6)**
1. Explain Layout Manager.
2. Explain Button and Entry field in brief.
3. Explain frame in brief.


**Q-4(C) Attempt the following.**                                   **(9)**
1. Explain Two way communication between client and server.
2. Explain different widget attributes of tkinter in detail.
3. What is URL ? How to read source code of webpage.


**Q-4(D) Attempt the following.**                                   **(10)**
1. Explain TCP/IP server and TCP/IP client.
2. Write note on sending E-mail using SMTP.
3. Explain Dialogues and Message boxes.

# ASSIGNMENT — CHAPTER - 5

# SEPTEMBER – 2024

**Stream: BCA/BSCIT SEM - 5**                    **Subject: Programming in Python**

**TOTAL – 30 MARKS**

## Q-5(A) Attempt the following.                                    (5)

1. _____ Method is used to fetch single record from the table.
2. Which package must import before writing database connectivity python code?
3. _____ Method can be used to execute queries to Database.
4. _____Method can be used to connect MySQL dB with Python Application.
5. _____ Method can be used to returns number of rows that were affected.

## Q-5(B) Attempt the following.                                    (6)

1. Write a python code to Retrieving rows from the Table.
2. What is MySQL dB?
3. Briefly Explain How to create Cursor Object.

## Q-5(C) Attempt the following.                                    (9)

1. Explain how to insert rows into the Table.
2. Explain How to create new Database ?
3. Explain How does Python connect to MYSQL Database?

## Q-5(D) Attempt the following.                                    (10)

1. Write note on updating rows in the table with Example.
2. Write note on deleting rows from the table with Example.