Course Code: **MCA-106**   Course Name: **Python Programming**

Assignment 2
(Based on Unit-III)

No.	Question	CO	BTL
Q 1.	Illustrate the concept of Data Hiding with the help of an example.	CO1	BTL 2
Q 2.	Compare and contrast between constructor and destructor.	CO1	BTL 2
Q 3.	Define a class Bank that keeps track of bank customer. The class should contain the following data members: name, acNo, type, balance, interest. The class should support the following methods: 1. __init__ for initializing the data members 2. deposit for depositing money in the account 3. withdrawal for withdrawing money from the account 4. fintInterest that determine the interest on the basis of amount in the account (>=5,00,000 : 8%, >=3,00,000 and <5,00,000; 7%, >=1,00,000 snd <3,00,000:5%, <1,00,000: 3) 5. _str_ that displays information about bank customer	CO4	BTL 4
Q4.	Write a class Point having x and y coordinates as data members. Write another class LineSegment that derives the class Point. Also, list appropriate methods.	CO4	BTL 4
Q5.	Explain Synchronization using locks and Semaphores.	CO1	BTL 2
Q6.	Write a Python program to extract characters from a given text files and puts them into a list. Print the list.	CO4	BTL 4

Q7.	Write a function that reads a file and copies only alternative lines to another file. Alternative lines copied should be the odd numbers lines. Handle all exceptions that can be raised.	CO4	BTL 4