Module -4

- 1. Illustrate the concept of modifier with Python code.
- 2. Explain init and __str__ method with an example Python Program.
- 3. Define polymorphism? Demonstrate polymorphism with function to find histogram to count the number of times each letter appears in a word and in a sentence.
- 4. Illustrate the concept of pure function with Python code.
- 5. Define Class Diagram. Discuss the need for representing class relationships using Class Diagram with suitable example.
- 6. Define classes and objects in Python. Create a class called Employee and initialize it with employee id and name. Design methods to:
 - (i) setAge_to assign age to employee.
 - (ii) setSalary to assign salary to the employee.
 - (iii) Display_to display all information of the employee.
- 7. Define class and object? What are programmer defined types? Explain with example.
- 8. What is the difference between method and function? Explain the working of init method with suitable code.
- 9. Define attribute'? With the help of python code, explain how functions return instance values.
- 10. What is type based dispatch? Illustrate with python example.
- 11. How class can be instatiated in python? Write a python program to express instances as return values to define a class RECTANGLE with members width, height. corner_x, corner_y and member function, to find center area and perimeter of rectangle.
- 12. Write a python program to find duration of event if start and end time is given by defining class TIME.