DEPARTMENT OF COMPUTER APPLICATIONS 20MCA131 PROGRAMMING LAB LAB CYCLE 3

[Using Python Functions]

- 1. Write a program using functions to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered a 12 percent rate of interest, for all other customers, the rate of interest is 10 percent.
- 2. Write a program using functions and return statements to check whether a number is even or odd.
- 3. Write a program to calculate the sum of three given numbers, if the values are equal then return thrice of their sum.
- 4. Write a function called compare which takes two strings S1 and S2 and an integer n as arguments. The function should return True if the first n characters of both the strings are the same else the function should return False.
- 5. Write a program to print the Fibonacci series using recursion.
- 6. Write a program to add variable length integer arguments passed to the function. [Also demo the use of docstrings]
- 7. Write lambda functions to find the area of square, rectangle and triangle.
- 8. Write a program to sum the series 1/1! + 4/2! + 27/3! + + nth term. [Hint : Use function to find the factorial of a number].