Python Programming

Lab Exercise – Functions

1. Write a function that counts odd and even numbers in a given list.
2. Write a function to get a new string from a given string by adding ‘Is’ to the beginning of the input string. If the given string already begins with ‘Is’, return the input string unchanged.
3. Write a function that accept a word and a count, n, (non-negative integer) and return n copies of the word.
4. Write a function that accepts 2 integers, perform the 4 basic arithmetic operations and return the result.
5. Write lambda functions:

(a) To find largest of 2 numbers

(b) To check the input number is divisible by 5

(c) To remove all strings with length < 5 from a list of strings

(d) To increment a list of integers by 10% if the number is greater than 1000 else by 5%.

6. Write lambda functions, each to find area of square, rectangle and triangle.

1. Write a recursive function to find factorial of a number.
2. Write a recursive function to find nth term in the Fibonacci series.
3. Write a recursive function to find the sum of digits of a given number.
4. Write a recursive function to find sum of first N whole numbers.
5. Write a recursive function to reverse a string.