

### **Assignments for 14-Dec-17**

1. Write a Python program to print numbers in ascending and descending order using recursion. The number should be given as user input

Ex:

Enter Number: 10

Numbers in ascending order: 1 2 3 4 5 6 7 8 9 10

Numbers in descending order: 10 9 8 7 6 5 4 3 2 1

2. Write a Python program to print factorial of user entered number using recursive function.

Enter Number: 5

Factorial of 5 is: 120

3. Write a Python program to print Fibonacci series using generator function (yield). Number of Fibonacci series required is provided by user.

Enter Number of Fibonacci Series Numbers: 5

First 5 Fibonacci Series Numbers: 1 1 2 3 5

4. Write a Python program to print multiples of 7 with in the user entered range by using generator function (yield).

Enter Start Number: 1

Enter End Number: 50

Multiples of 7 between 1 and 50 are: 7, 14, 21, 28, 35, 42, 49

5. Write a program in Python to accept user input of list, multiply each number in the list using iterators and print the result