Loops (For & While) (ASSIGNMENT –III):

1. Write a Program in Python to compute the Factorial of a Number.

2. Write a Program in Python to find the sum of the following series

   (a) S=1 + 2 + 3 + 4 + ... + N (Input N).

   (b) S=1 + 3 + 5 + 7 + ... + Up to Nth Term (Input N).

   (c) S=1+1/2 + 1/4 + 1/8 + 1/16 + ... + 1/ 2^N (Input N).

   (d) S= 1 - 1/3 + 1/9 - 1/27 + 1/81 - 1/243 …. Up to Nth Term.

   (e) S= 1! + 2! + 3! + 4! + ... + N! (Input N).

3. Write a Program in Python to Generate the Fibonacci Series up to Nth Term.

        1 + 1 + 2 + 3 + 5 + 8 + 13 + ... + Nth Term

4. Write a Program in Python to Print the Reverse of a Number.

5. Write a Program in Python to find the Sum of the Digits of a Number.

Soumen Pal, S.T.A, CSE Dept, FIEM