

## **DSC Practical – 3**

### **Recursion.**

1. Write a C program to calculate factorial of given number using recursion.
2. Write a C program to obtain Fibonacci Series upto given position using recursion.
3. Write a C program to obtain number at desired location in Fibonacci Series using recursion.
4. Write a C program to obtain GCD of two numbers using recursion.
5. Write a recursive solution in program to solve Tower of Hanoi problem for N disks.
6. Write a C program to calculate power of any given number using recursion.
7. Write a C program to calculate Sum of Natural Numbers Using Recursion
8. Write a C program to count digits of a number using recursion and sum of all digits in a number using recursion.
9. Write a C program which uses recursion to find length of the entered string.
10. Write a program in C to print the array elements using recursion. Collect the array from user and then display the array using recursive method.