11. Recursive Functions

CO3: Implement modular applications using Functions and pointers.

1. Write a program which inputs n and r and computes nC_r by calling the function which returns the factorial of its argument. The function computes the factorial by using recursive method.

   $nC_r=n!/(r!\ (n-r)!)$
2. Write a recursive function to find the n^{th} Fibonacci number and using that function display the first n terms of the Fibonacci series.

   0 1 1 2 3 5 8 13…
3. Write a C Program to find the sum of first 'n' natural numbers using Recursion.
4. Write a C program to reverse an integer using recursion.
5. Write a C program to find HCF of a given numbers using recursion.
6. Write a C program to depict Towers of Hanoi problem.