LAB 05

**Program#01:**

Write a function, which takes a string as an argument and prints the reverse of that string using recursion.

**Program#02:**

Write a function to check whether a string is a palindrome or not using recursion. A string should be passed as an argument to the function. And it should return true if it’s a palindrome and false if it’s not.

**Program#03:** Write a program to find a number N in an array using binary search (Binary search should be implemented using recursion), The function should return the index of the number if it’s found and -1 if that number doesn’t exist in the array .

**Program#04:**

Given an integer n, count *the total number of digit*1*appearing in all non-negative integers less than or equal to* n.

**Example 1:**

**Input:** n = 13

**Output:** 6

**Example 2:**

**Input:** n = 5

**Output:** 1