**LAB 1**

1. Write a program in which we are trying to ask the user to guess a randomly generated number. The number is in range of 1-100. If the user guesses the number which is greater than the generated number, print “The number is too large”. If the user guesses the number which is less than the generated number, print “The number is too small”. If the user guesses the number correctly, print “Correct Number!”.

At the end we will print the number that was randomly generated.

1. Write a program that takes your full name as input and displays the abbreviations of the first and middle names except the last name which is displayed as it is. For example, if your name is Robert Brett Roser, then the output should be R.B.Roser.
2. Input a string of alphabets. Find out the number of occurrences of all alphabets in that string. Find out the alphabet with maximum occurrence.
3. Write a program to find out longest palindrome in a given string?

**Input:** Given string:"forgeeksskeegfor",

**Output:** "geeksskeeg".

1. Write a program to remove duplicate characters from String.