Lab Assignment – 1

1. Find the largest number among three numbers. Input three numbers and find the largest one.

   Sample Input:
   4 24 15
   Sample Output:
   24

2. Arrange three number from smaller to larger.

   Sample Input:
   54 2 34
   Sample Output:
   2 34 54

3. Input a point and find the quadrant number.

   Sample Input1:
   3 4
   Sample Output1:
   Quadrant 1

   Sample Input2:
   -3 -4
   Sample Output2:
   Quadrant 3

4. Input n and r then find nCr.

   Sample Input:
   5 3
   Sample Output:
   10

5. Convert a decimal number to binary number.

   Sample Input:
   5
   Sample Output:
   101

6. Convert a binary number to decimal number.

   Sample Input:
   101
   Sample Output:
   5

7. You will be given an array of 0 or 1. Now you have to count the **maximum consecutive 1** in the array. **Input** - First of all you have to input an integer N (the number of 0 0r 1), then 0 or 1(space separated) **n times**.

Sample Input:
11
1 0 1 1 0 1 1 1 0 1 1
Sample Output
3

8. You will be given an array of integer numbers. Then you have to print the summation of numbers from ith position to jth position of the array. **Input** - First of all input N, then N numbers in the array. And at last you have to input i and j.

   Sample Input:
   7
   34 4 6 7 10 15 21
   1 4
   Sample Output:
   27

9. Input an integer number which is larger the 100, then find the second digit from right side.

   Sample Input:
   1937464
   Sample Output:
   9

10. Input a string. Find the length of the string **without strlen()**. So, here you have to find the string length through '\0' character.

    Sample Input:
    Asd23df
    Sample Output
    7

11. Input a string of alphabet. Then count the number of vowels and consonants.

    Sample Input:
    Country
    Sample Output:
    Vowels – 2
    Consonant – 5

12. Input a string and then divide the string through when a '#' character found and print the divided part through separate line.

    Sample Input:
    Bangladesh#isvery#BeautifulCountry
    Sample Output:
    Bangladesh
    isvery
    BeautifulCountry

13. Input two string and then concatenate them. So if a string is "water" and another string is "melon". Then the output would be "watermelon"

    Sample Input:
    Cricket

Team
Sample Output:
CricketTeam

14. Input two string and check if the 1st string contains 2nd string or not. If do print Yes otherwise No.

    Sample Input1:
    Boundary
    und
    Sample Output1:
    Yes

    Sample Input2:
    Boundary
    uni
    Sample Output2:
    No

15. Input a **Number larger than 1** and check if the number is prime or not. If prime print Prime otherwise print Not Prime. A number is prime if the number is not 1 and cannot be divided by any other number except the number itself and 1. For example 2, 3, 5, 7, 11, 13, 17, 19 are prime numbers.

    Sample Input1:
    23
    Sample Output1:
    Prime
    Sample Input2:
    8
    Sample Output2:
    Not Prime

16. Input N numbers and print the numbers from smaller to larger. Input – first of all, input N, then N Numbers in a Array.

    Sample Input:
    8
    5 3 2 5 4 7 1 8
    Sample Output:
    1 2 3 4 5 5 7 8