



**Department of Computer Science & Engineering**

**Problem Solving with C Laboratory-UE19CS152**

**Week-8**

**Objective: Students will learn to write Character Input and Output functions.**

**1)a) Write a Program to accept all characters in a given line and print the next character as an output.**

**Input:**

Enter characters to print next character=Hello World 1234

**Output:**

lfmmp Xpsme 2345

**2) Write a program to squeeze repeated characters by inputting the characters in the given order.**

**Input1:**

aaaaabbbbbccccdddeeee

**Output1:**

abcde

**Input2:**

aaa1111gggg3333

**Output2:**

a1g3

**3) Write a program to count the occurrences of the characters,by inputting the characters in the given order.**

**Input:**

xxxxyyyyzz!!

**Output:**

x : 3

y : 5

z : 2

! : 2

**4) Write a program to rotate every word in the given string.**

**Input:**

We like C programming a lot!

**Output:**

eW ikel C rogrammingp a ot!

**5) Write a program to find frequency of each of the vowels and total count of consonants.**

**Input1:**

Enter the sentence:welcome to C programming

**Output1:**

Frequency of vowel 'a' is 1.

Frequency of vowel 'e' is 2.

Frequency of vowel 'i' is 1.

Frequency of vowel 'o' is 3.

Frequency of vowel 'u' is 0.

Consonants count is 14.

**Input2:**

Enter the sentence:Problem Solving C Laboratory

**Output2:**

Frequency of vowel 'a' is 2.

Frequency of vowel 'e' is 1.

Frequency of vowel 'i' is 1.

Frequency of vowel 'o' is 4.

Frequency of vowel 'u' is 0.

Consonants count is 17.

**Practice programs:**

1) Write a program to read and print the length of each word.

2) Write a Program to copy input to output, replacing each string of one or more blanks by a single blank.