

North South University
Department of Electrical and Computer Engineering
CSE 115L: Programming Language I Lab
Week 07 – Assignments

1. Write a program that converts all lowercase characters in a given string to its equivalent uppercase character without using any library function.
2. Write a program that converts a string like "124" to an integer 124.
3. Write a program that replaces two or more consecutive blanks in a string by a single blank. For example, if the input is : Grim return to the planet of apes !!
the output should be : Grim return to the planet of apes!!
4. Write a C Program to Find the Frequency of a Character in a String.
Sample Input String: abaacton
Sample Input Character: a
Sample Output: 3
5. Write a C Program to remove all Characters in a String except digits.
Sample Input String: a5R899Lj4
Sample Output: 58994
6. Write a C Program to check whether a string is palindrome or not.
Sample Input: abba Sample Output: Yes
Sample Input: abaa Sample Output: No
7. Write a C program to remove all occurrence (except the first one) of a character in given string.
Sample Input: abttpatp
Sample Output: abtp
8. Write a C program to take a string as input and
 - I. Find the maximum occurring **Special Character** of that string and also find the number of occurrence of that Special Character.
 - II. Eliminate all the characters **except** alphabets from that given string and print the remaining string.**Sample Input:** h3.e!l%1o&.wo%r#l%d
Sample Outputs: The maximum occurring Special Character is '%'
It appeared 3 times
Filtered String : helloworld
9. Write a C program to take a string as input and
 - a. Count the total number of words in a string.
 - b. Eliminate all the characters **except** alphabets from that given string and print the remaining string.**Sample Input :** I love my family
Sample Outputs: There are 4 words
Filtered String : llovemyfamily
10. Write a C program to take a string as input and

- i. Count the total number of alphabets, digits and special characters in that string.
- ii. Eliminate all the characters **except** digits from that given string and print the remaining string.

Sample Input : 7%a:u8^bq\$>#7Q2

Sample Outputs: Number of Alphabets in the string is : 5

Number of Digits in the string is : 4

Number of Special characters in the string is : 6

Filtered String : 7872

11. Write a C program to take a string as input and

- a. Count total number of **vowel** and **consonant** in that string.
- b. Now replace lowercase **Vowels** by uppercase and vice-versa.

Sample Input : a=Q78u*Ic?K!b\$R(ow/Nf%O#x

Sample Outputs: The total number of vowel in the string is : 5

The total number of consonant in the string is : 9

Filtered String : A=Q78U*Ic?K!b\$R(Ow/Nf%o#x

12. Write a C program to take a string as input and

- I. Find the **largest** and **smallest** word in that string
- II. Now change the case of the **largest** word to **uppercase** and print the updated string.

Sample Input : I love myself

Sample Outputs: The largest word is 'myself'

The smallest word is 'I'

Filtered String : I love MYSELF

13. Write a C program to take a string as input and

- a. Count total number of **vowel** in that string and print it.
- b. If the number of Vowels are greater than 4 then eliminate the blank spaces and print the updated string.

Sample Input: I love travelling

Sample Outputs: The total number of vowel in the string is : 6

Filtered String: llovetravelling

14. A password is called STRONG if it holds all of the following properties:

- (a) It has at least 8 characters.
- (b) It contains at least one lower case letter, and at least one upper case letter.
- (c) It does not contain any blank space.

Write down a C program that will take a password as input to a string and will print a message indicating whether it is STRONG or WEAK.

Sample input: Strange

Sample output: The password is WEAK