National University of Computer and Emerging Sciences



**Laboratory Manual**

***(Introduction to Computing)***

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**Functions with Null Terminated Character ARray**

**Question 1:**

Write a function MyOwnStrlen whose parameter is a null terminated character array. The function finds and returns the length of this array.

**Question 2:**

Write a function charCount whose parameters are a null terminated character array and a character. The function returns the number of times this character is found in the character array. Implement a driver program (main) to test these functions.

**Question 3:**

Write a function strcat whose parameters are three arrays. Array1 and array2 have a fixed size. Concatenate both these arrays into array3. (You must use functions MyOwnStrlenwritten in inlab.)

**Question 4**:

Write a function countwords whose parameters are 2 arrays. The function returns the number of times array2 exists in array1. (You can use function in pl task 2, if you want.)

**Question 5:**

**Note:** All the arrays (input/output) are declared in the caller (main or any other function) then pass them as parameters in function.

1. Declare a character string of size 50 and initialize all items of the array to zero:

const int MAXSIZE = 50;

char str[MAXSIZE] = {0};

1. Now input the string using:

cin >> str; //(When running the programming specify “*hello this is my ITC lab* “ as input string.)

What do you get when you output the string using cout? (cout << str)

Repeat the same for different strings that contain spaces. What are your observations?

2.Run a for loop and output all the 50 characters of the string as numbers

(Using cout << (int) str[i])? What do you observe?

3. Try this instead of simple cin:

cin.getline(str,MAXSIZE);

Now output the string using cout and output individual characters of the string using the above mentioned for loop. What do you observe?