

Department of Education

Lab Report On : **String** Report No : 09

Course code : ICT 4154

Course Title : Introduction to programming Lab

Submitted To

Farhana Islam

Lecturer,

Department of Education,

Bangabandhu Sheikh Mujibur Rahman Digital

University, Bangladesh.

Submitted By

Md. Shahiduzzaman Basunia[2002033]

Md. Rony Ahmmed Shah [2002035]

Md. Jahid Hasan Himel [2002045]

:

Date of Submission: 08th March, 2023

Question: 1. C program to print individual characters of string in reverse order Solve:

Here a[100] is a string and i is the length of string and output print individual characters of string in reverse order

Question: 2. C Program to count total number of alphabets, digits.

Solve: a[100] is string and w for alphabets and n for number variable

```
2alphabetsDigits.c.c
    #include<stdio.h>
    #include<string.h>
    int main(){
        char a[100];
        printf("Enter a string:\n");
        gets(a);
        int i=0, w=0, n=0;
        while( a[i] != '\0'){
            if(a[i]>=48 && a[i]<=57){
                n++;
            if(a[i]>=65 && a[i]<=90 || a[i]>=97 && a[i]<=122){
            i++;
        printf("Alphabets is: %d\nNumber is: %d", w, n);
        return 0;
20 }
```

Question: 3. C Program to count total number of vowel or consonant

Solve: here w for all alphabets and v for vowel

Question: 4. C program to convert a string to uppercase

Solve: if the alphabets ASCII 97 to 122 (small) than will be uppercase

```
C 4uppercase.c
 2 #include<stdio.h>
 3 #include<string.h>
    int main(){
        char a[100];
        printf("Enter a string:\n");
        gets(a);
        int i=0;
        while( a[i] != '\0'){
            if(a[i]>=97 && a[i]<=122){
                printf("%c", a[i]-32);
            }else{
                printf("%c", a[i]);
            i++;
        }
        return 0;
```

```
Enter a string:
I Love Bangladesh and Bdu
I LOVE BANGLADESH AND BDU
Process returned 0 (0x0) execution time: 41.286 s
Press any key to continue.
```

Question: 5. C program to extract a substring from a given string Solve:

```
5substring.c
    #include<stdio.h>
    #include<string.h>
    int main(){
        char a[100], s[100];
        printf("Enter a string:\n");
        gets(a);
        int x, z, i=0;
        printf("Enter the position and length of substring\n");
        scanf("%d%d", &x, &z);
        for( x; x<=z; x++){</pre>
            s[i]=a[x-1];
            i++;
        i=0;
        while(s[i]!='\0'){
            printf("%c", s[i]);
            i++;
        }
        return 0;
```

```
Enter a string:

I Love Bangladesh
Enter the position and length of substring

6
Love
Process returned 0 (0x0) execution time: 16.376 s
Press any key to continue.
```

The End