



Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering
Semester: (Summer, Year: 2021), B.Sc. in CSE (Day)

Course Title: Structured Programming Lab
Course Code: CSE 104 Section: 213DC

CLP-4

Student Details

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Submission Date: 16/05/2022

Course Teacher's Name: Md. Sultanul Islam Ovi

[For Teachers use only: **Don't Write Anything inside this box]**

Lab Project Status

Marks:


Signature:

Comments:

Date:

Task 1:

GitHub Profile: <https://github.com/Rio-R>



Rio-R

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Rio-R / README.md

- Hi, I'm @Rio-R
- I'm interested in Web Design
- I'm currently learning Web Design and Python
- I'm looking to collaborate on ...
- How to reach me naimulhaquarahat@gmail.com

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Task 2:

Code:

```
/*
Naimul Haque Bhuyan Rahat
Id: 213903100
*/

#include<stdio.h>
#include<stdlib.h>

int compare(char[],char[]);

int main(){
    int num;
    do{
        system("cls");
        printf("\n\n");
        printf("===== *****\n\n");
        printf("\t\t\t[1]=> STRCAT\n\n");
        printf("\t\t\t[2]=> STRLEN\n\n");
        printf("\t\t\t[3]=> STRREV\n\n");
        printf("\t\t\t[4]=> STRCMP\n\n");
        printf("\t\t\t[5]=> STRCPY\n\n");
        printf("\t\t\t[6]=> STRLWR\n\n");
        printf("\t\t\t[7]=> STRUPR\n\n");
        printf("\t\t\t[8]=> Exit\n\n");
        printf("===== *****\n\n");
        printf("\t\t\t Enter Your Choice: ");
        scanf("%d",&num);

        switch(num){
            case 1:
                strCat();
                break;
            case 2:
                strLen();
                break;
            case 3:
                strRev();
                break;
            case 4:
                strCmp();
                break;
            case 5:
                strCpy();
                break;
            case 6:
                strLwr();
                break;
            case 7:
                strUp();
                break;
        }

        getch();
    }while(num!=8);

    return 0;
}
```

```

void strCat(){
    char str1[50], str2[50], i, j;
    printf("\nEnter first string: ");
    fflush(stdin);
    gets(str1);

    printf("\nEnter second string: ");
    gets(str2);
    for(i=0; str1[i]!='\0'; ++i);
    for(j=0; str2[j]!='\0'; ++j, ++i)
    {
        str1[i]=str2[j];
    }
    str1[i]='\0';
    printf("\nOutput: %s",str1);
}

```

```

void strLen(){
    char str1[50], i;
    printf("\nEnter string: ");
    fflush(stdin);
    gets(str1);
    for(i=0; str1[i]!='\0'; ++i);
    printf("StrLen = %d",i);
}

```

```

void strRev(){
    char str1[50], str2;
    int i, len=0,length=0;
    printf("\nEnter string: ");
    fflush(stdin);
    gets(str1);
    for(i=0; str1[i]!='\0'; ++i,len++);
    length= len-1;
    for(i=0;i<len/2;i++){
        str2=str1[i];
        str1[i]=str1[length];
        str1[length--]=str2;
    }
    printf("%s",str1);
}

```

```

void strCmp(){
    char str1[20];
    char str2[20];
    printf("Enter the first string : ");
    scanf("%s",str1);
    printf("Enter the second string : ");
    scanf("%s",str2);
    int c= compare(str1,str2);
    if(c==0)
        printf("strings are same");
    else
        printf("strings are not same");

    return 0;
}
int compare(char a[],char b[])
{
    int flag=0,i=0;
    while(a[i]!='\0' && b[i]!='\0')

```

```

{
    if(a[i]!=b[i])
    {
        flag=1;
        break;
    }
    i++;
}
if(flag==0)
return 0;
else
return 1;
}

void strCpy(){
    char s1[100], s2[100], i;
    printf("Enter string s1: ");
    fflush(stdin);
    gets(s1);

    for (i = 0; s1[i] != '\0'; ++i) {
        s2[i] = s1[i];
    }

    s2[i] = '\0';
    printf("String s2: %s", s2);
}

void strLwr(){
    char Str1[100];
    int i;

    printf("\n Please Enter a String to Convert into Lowercase : ");
    fflush(stdin);
    gets(Str1);

    for (i = 0; Str1[i]!='\0'; i++)
    {
        if(Str1[i] >= 'A' && Str1[i] <= 'Z')
        {
            Str1[i] = Str1[i] + 32;
        }
    }

    printf("\n The given String in Lower Case = %s", Str1);
}

void strUpr(){
    char Str1[100];
    int i;

    printf("\n Please Enter a String that you want to Convert into Uppercase : ");
    fflush(stdin);
    gets(Str1);

    for (i = 0; Str1[i]!='\0'; i++)
    {
        if(Str1[i] >= 'a' && Str1[i] <= 'z')
        {
            Str1[i] = Str1[i] - 32;
        }
    }
}

```

```
}  
  
printf("\n The given String in Upper Case = %s", Str1);  
}
```

Output:

```
===== ***** =====  
  
[1]=> STRCAT  
[2]=> STRLEN  
[3]=> STRREV  
[4]=> STRCMP  
[5]=> STRCPY  
[6]=> STRLWR  
[7]=> STRUPR  
[8]=> Exit  
  
===== ***** =====  
  
Enter Your Choice:
```

Main Menu

```
Enter Your Choice: 1  
  
Enter first string: Hello  
Enter second string: World  
Output: HelloWorld
```

StrCat

```
Enter Your Choice: 2  
  
Enter string: Hello World  
StrLen = 11
```

StrLen

Enter Your Choice: 3

Enter string: Hello
olleH

StrRev

Enter Your Choice: 4

Enter the first string : Hello
Enter the second string : Hello
strings are same

StrCmp

Enter Your Choice: 5

Enter string s1: Hello
String s2: Hello

SterCpy

Enter Your Choice: 6

Please Enter a String to Convert into Lowercase : Hello World
The given String in Lower Case = hello world

StrLwr

Enter Your Choice: 7

Please Enter a String that you want to Convert into Uppercase : hello
The given String in Upper Case = HELLO

StrUprr