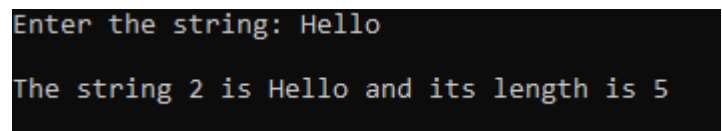


1. Develop a C program to copy one string to another string and find its length without using built in functions.

```
#include<stdio.h>

void main()
{
    char s1[100],s2[100];
    int i=0;
    printf("Enter the string: ");
    gets(s1);
    while(s1[i]!='\0')
    {
        s2[i]=s1[i];
        i++;
    }
    s2[i]='\0';
    printf("\nThe string 2 is %s and its length is %d\n",s2,i);
}
```

A screenshot of a terminal window showing the output of the C program. The first line shows the prompt "Enter the string: " followed by the user input "Hello". The second line shows the output "The string 2 is Hello and its length is 5".

```
Enter the string: Hello
The string 2 is Hello and its length is 5
```

2. Develop a C program to create student structure, read 2 student details (Student roll number, name, section, department, fees and results i.e. total marks obtained) and print the student details who has scored the highest.

```
#include<stdio.h>

void main()
{
    struct student
    {
        int roll_no;
        char name[20];
        char section[2];
        char dept[20];
        float fees;
        int result;
    }
    std1, std2;

    printf("\nEnter the details of std1:\n");
    printf("Roll no: ");
    scanf("%d", &std1.roll_no);
    printf("Name: ");
    scanf("%s", std1.name);
    printf("Section: ");
    scanf("%s", std1.section);
    printf("Department: ");
    scanf("%s", std1.dept);
    printf("Fees: ");
    scanf("%f", &std1.fees);
    printf("Result: ");
    scanf("%d", &std1.result);

    printf("\n\nEnter the details of student 2:\n");
    printf("Roll no: ");
```

```
scanf("%d",&std2.roll_no);
printf("Name: ");
scanf("%s",std2.name);
printf("Section: ");
scanf("%s",std2.section);
printf("Department: ");
scanf("%s",std2.dept);
printf("Fees: ");
scanf("%f",&std2.fees);
printf("Result: ");
scanf("%d",&std2.result);
if(std1.result>std2.result)
{
    printf("\nThe student who scored the highest marks is student 1 and the details are:\n");
    printf("The roll number is %d\n",std1.roll_no);
    printf("The name is %s\n",std1.name);
    printf("The section is %s\n",std1.section);
    printf("The department is %s\n",std1.dept);
    printf("The fees is %.2f\n",std1.fees);
    printf("The result is %d\n",std1.result);
}
else
{
    printf("\nThe student who scored the highest marks is student 2 and the details are:\n");
    printf("The roll number is %d\n",std2.roll_no);
    printf("The name is %s\n",std2.name);
    printf("The section is %s\n",std2.section);
    printf("The department is %s\n",std2.dept);
    printf("The fees is %.2f\n",std2.fees);
    printf("The result is %d\n",std2.result);
}
```

}

Enter the details of std1:

Roll no: 1

Name: Sakshi

Section: A

Department: CSE

Fees: 15000

Result: 85

Enter the details of student 2:

Roll no: 2

Name: Shravani

Section: A

Department: CSE

Fees: 15000

Result: 95

The student who scored the highest marks is student 2 and the details are:

The roll number is 2

The name is Shravani

The section is A

The department is CSE

The fees is 15000.00

The result is 95