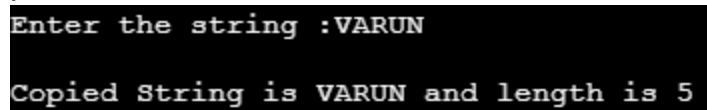


1. Develop a C program to copy one string to another string and find its length without using built-in functions.

```
#include<stdio.h>
int main()
{
    char s1[100], s2[100];
    int i;
    printf("\nEnter the string:");
    scanf("%s",s1);
    i = 0;
    while (s1[i] != '\0')
    {
        s2[i] = s1[i];
        i++;
    }
    s2[i] = '\0';
    printf("\nCopied String is %s and length is %i", s2,i);
    return 0;
}
```

A screenshot of a terminal window showing the output of the C program. The first line is "Enter the string :VARUN" and the second line is "Copied String is VARUN and length is 5".

```
Enter the string :VARUN
Copied String is VARUN and length is 5
```

2. Develop a C program to create student structure, read two 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>
int main()
{
    struct student
    {
        char firstName[50];
        char section[10];
        char dept[10];
        int roll;
        float marks;
        float fees;
    };

    int i,highestmarks,studentnumber;
    struct student s[2];
    printf("Enter information of students:\n");
    for (i=0; i<2;i++)
    {
        printf("\nSTUDENT NUMBER:%d",i);
        printf("\nEnter student name: ");
        scanf("%s", s[i].firstName);
        printf("Enter student section: ");
```

```

scanf("%s", s[i].section);
printf("Enter student department name:");
scanf("%s", s[i].dept);
printf("Enter student roll number:");
scanf("%d", &s[i].roll);
printf("Enter student marks:");
scanf("%f", &s[i].marks);
printf("Enter student fee:");
scanf("%f", &s[i].fees);
}
highestmarks=0;
studentnumber=0;
for (i = 0; i < 2; i++)
{
    if(s[i].marks > highestmarks)
    {
        highestmarks=s[i].marks;
        studentnumber=i;
    }
}

printf("\nDisplaying Student Information with highest score:\n\n");
printf("Name:%s ", s[studentnumber].firstName);
printf("\nMarks: %.1f", s[studentnumber].marks);
printf("\n");
return 0;
}

```

```

Enter information of students:

STUDENT NUMBER:0
Enter student name: RAHUL
Enter student section: CA
Enter student department name: IS
Enter student roll number:1
Enter student marks: 50
Enter student fee: 1000

STUDENT NUMBER:1
Enter student name: RAM
Enter student section: CB
Enter student department name: CS
Enter student roll number:2
Enter student marks: 60
Enter student fee: 2000

Displaying Student Information with highest score:

Name:RAM
Marks: 60.0

```