

//lab 8 evaluation 1 program(string)

```
#include<stdio.h>
int len(char str[20])
{
    int i=0,count=0;
    while(str[i]!='\0')
    {
        count += 1;
        i++;
    }
    return count;
}
int main()
{
    char str1[20],str2[20];
    int i=0,j=0;
    printf("Enter the string to be copied\n");
    scanf("%s",str1);
    while(str1[i] != '\0')
    {
        str2[j]=str1[i];
        i++;
        j++;
    }
    printf("Original string is %s\n",str1);
    printf("Copied string is %s\n",str2);
    printf("Length of the string is %d\n",len(str1));
}
```

output

```
Enter the string to be copied
humanity
Original string is humanity
Copied string is humanity
Length of the string is 8
```

//lab 8 program 2 (structure)

```
#include<stdio.h>
struct student{
    int rollnumber;
    char name[20];
    char section[20];
    char dept[10];
}
```

```

    float fees;
    int totalmarks;
};
int main()
{
    int i;
    struct student stud1,stud2;
    printf("Enter Roll of student 1 : ");
    scanf("%d",&stud1.rollnumber);
    printf("Enter name of student 1 : ");
    scanf("%s",stud1.name);
    printf("Enter the Section of student 1 : ");
    scanf("%s",stud1.section);
    printf("Enter the department of student 1 : ");
    scanf("%s",stud1.dept);
    printf("Enter the fees of student 1 : ");
    scanf("%f",&stud1.fees);
    printf("Enter total marks of student 1 : ");
    scanf("%d",&stud1.totalmarks);
    printf("Enter Roll of student 2 : ");
    scanf("%d",&stud2.rollnumber);
    printf("Enter name of student 2 : ");
    scanf("%s",stud2.name);
    printf("Enter the Section of student 2 : ");
    scanf("%s",stud2.section);
    printf("Enter the department of student 2 : ");
    scanf("%s",stud2.dept);
    printf("Enter the fees of student 2 : ");
    scanf("%f",&stud2.fees);
    printf("Enter total marks of student 2 :");
    scanf("%d",&stud2.totalmarks);
    printf("Roll Number of student 1 %d\n",stud1.rollnumber);
    printf("Name of student 1 %s\n",stud1.name);
    printf("Section of student 1 %s\n",stud1.section);
    printf("Department of student1 %s\n",stud1.dept);
    printf("Fees of student1 %0.2f\n",stud1.fees);
    printf("Total marks of student 1 %d\n",stud1.totalmarks);

```

```
printf("Roll Number of student 2 %d\n",stud2.rollnumber);
printf("Name of student 2 %s\n",stud2.name);
printf("Section of student 2 %s\n",stud2.section);
printf("Department of student 2 %s\n",stud2.dept);
printf("Fees of student2 %0.2f\n",stud2.fees);
printf("Total marks of student 2 %d\n",stud2.totalmarks);
if(stud1.totalmarks>stud2.totalmarks)
{
    printf("Student 1 secured highest marks");
}
else if(stud1.totalmarks==stud2.totalmarks)
{
    printf("Student 1 and 2 secured same marks");
}
else
{
    printf("Student 2 secured highest marks");
}
return 0;
}
```

Output

```
Enter Roll of student 1 : 1
Enter name of student 1 : sakshi
Enter the Section of student 1 : cn
Enter the department of student 1 : cse
Enter the fees of student 1 : 120000
Enter total marks of student 1 : 495
Enter Roll of student 2 : 2
Enter name of student 2 : chikki
Enter the Section of student 2 : cn
Enter the department of student 2 : cse
Enter the fees of student 2 : 120000
Enter total marks of student 2 : 486
Roll Number of student 1 1
Name of student 1 sakshi
Section of student 1 cn
Department of student1 cse
Fees of student1 120000.00
Total marks of student 1 495
Roll Number of student 2 2
Name of student 2 chikki
Section of student 2 cn
Department of student 2 cse
Fees of student2 120000.00
Total marks of student 2 486
Student 1 secured highest marks
```