S.No: 26	Exp. Name: ***Write a C program to implement String manipulation operations using library functions***	Date:2023-01-15

Aim:

Write a program to implement the **string manipulation operations** by using string library functions.

At the time of execution, the program should print the message on the console as:

```
Enter two strings :
```

For example, if the user gives the **input** as:

```
Enter two strings : Ram Laxman
```

then the program should **print** the result as:

```
The length of Ram : 3
The copied string of Ram : Ram
Ram is greater than Laxman
The concatenated string : RamLaxman
```

Note: Do use the **printf()** function with a **newline** character (\n) at the end.

Source Code:

Program612.c

```c
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[20],str2[20],copy[20];
    int i;
    printf("Enter two strings : ");
    scanf("%s",str1);
    scanf("%s",str2);
    i=strlen(str1);
    printf("The length of %s : %d\n",str1,i);
    strcpy(copy,str1);
    printf("The copied string of %s : %s\n",str1,copy);
    i=strcmp(str1,str2);
    if(i==0)
    {
        printf("Both strings are equal\n");
    }
    else if (i<0)
    {
        printf("%s is less than %s\n",str1,str2);
    }
    else
    {
        printf("%s is greater than %s\n",str1,str2);
    }
    strcat(str1,str2);
    printf("The concatenated string : %s\n",str1);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output
Enter two strings : Ram Laxman
The length of Ram : 3
The copied string of Ram : Ram
Ram is greater than Laxman
The concatenated string : RamLaxman

Test Case - 2

User Output
Enter two strings : Teacher Student
The length of Teacher : 7
The copied string of Teacher : Teacher
Teacher is greater than Student
The concatenated string : TeacherStudent

Test Case - 3

User Output
Enter two strings : Languages Programming
The length of Languages : 9
The copied string of Languages : Languages
Languages is less than Programming
The concatenated string : LanguagesProgramming

Test Case - 4

User Output
Enter two strings : Ganga Ganga
The length of Ganga : 5
The copied string of Ganga : Ganga
Both strings are equal
The concatenated string : GangaGanga