S.No: 29	Exp. Name: *Write a C program to Concatenate two given strings without using string library functions*	Date:2023-01-26

Aim:

Write a program to `concatenate` two given strings without using string library functions.

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

```
string1 :
```

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

```
string1 : ILove
```

Next, the program should print the message on the console as:

```
string2 :
```

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

```
string2 : Coding
```

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

```
concatenated string = ILoveCoding
```

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

Source Code:

```
Program605.c
```

```c
#include<stdio.h>
void main()
{
    char s1[100],s2[100],s3[100],i,j;
    printf("string1 : ");
    scanf("%s",s1);
    printf("string2 : ");
    scanf("%s",s2);
    for(i=0;s1[i]!='\0';i++)
    {
        s3[i] = s1[i];
    }
    j=i;
    for(i=0;s2[i]!='\0';i++)
    {
        s3[j] = s2[i];
        j++;
    }
    s3[j] = '\0';
    printf("concatenated string = %s\n",s3);
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
string1 : ILove
string2 : Coding
concatenated string = ILoveCoding

Test Case - 2
User Output
string1 : 1234
string2 : 567
concatenated string = 1234567