KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Session 2020-21

Experiment – No-11

Objective: Program to implement string manipulation function.		
Scheduled Date	**Compiled Date**	**Submission Date**
10-feb-2021	**10-feb-2021**	**15-feb-2021**

```
#include<stdio.h>

int stringlength(char[]);

void reversestring(char[],char[]);

char stringcopy(char[],char[]);

void stringcompare(char[],char[]);

char stringconcat(char[],char[]);

int strpalindrome(char[],char[]);

void main()

{

        char str[20],str1[20],str3[20],str2[20],str4[20];

        printf("enter the string ");

        gets(str);

        printf("enter another string ");

        gets(str2);

        printf("length of the string %d \n",stringlength(str));

   reversestring(str,str1);

        printf("reverse of a string %s -> %s \n",str,str1);

        stringcopy(str,str3);

        printf("copy of string %s is %s \n",str,str3);

        stringcompare(str,str2);

        stringconcat(str,str2);
```

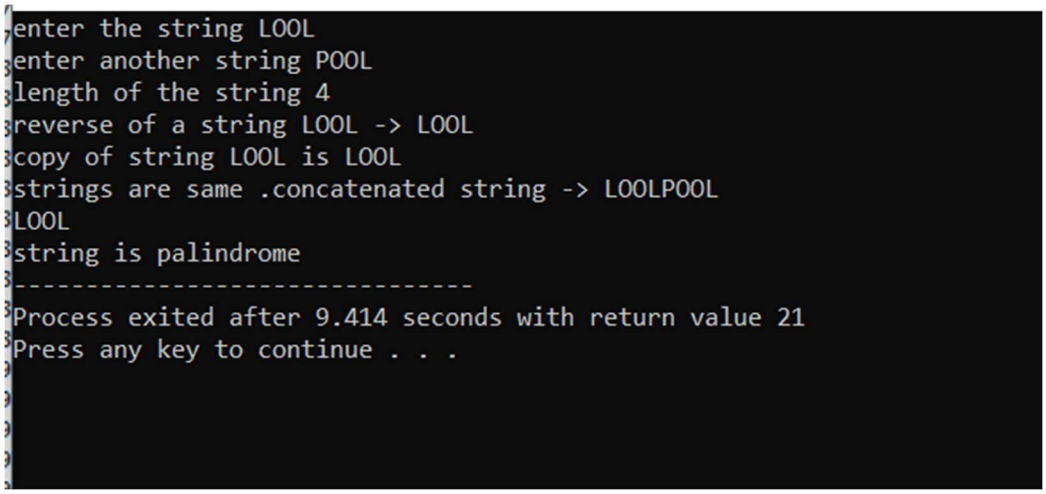
```
        printf("concatenated string -> %s",str);
        strpalindrome(str3,str4);
}
int stringlength(char str[])
{
        int len=0;
//length of the string
   while(str[len]!='\0')
    len++;
    return len;
}
void reversestring(char str[],char str1[])
{
        int i ,r=0;
        //reverse of the string
        for(i=stringlength(str)-1;i>=0;i--)
        {
                str1[r++]=str[i];
        }
        str1[r]='\0';
}
// copying of one string to another.
char stringcopy(char src[],char des[])
{
        int l=0;
        while(src[l]!='\0')
        {
                des[l]=src[l];
```

```
                l++;
        }
        des[l]='\0';
}
//comparison of two strings .
void stringcompare(char str[],char str2[])
{
        int l=0,diff=0;
        if(stringlength(str)==stringlength(str2))
        {
        while(str[l]!='\0')
   {
        diff=(str[l]-str2[l]);
        l++;
        }
        if(diff==0)
        printf("strings are same .");
        else
        printf("string are differ .");
   }
   else
   printf("length are not equal\n");
}
//concatenation of two strings.
char stringconcat(char fs[],char ss[])
{
        int len=stringlength(fs);
        int r=0;
```

```
        while (ss[r]!='\0')
        {
                fs[len+r]=ss[r++];
        }
        fs[len+r]='\0';
}
//check the string is palindrome or not.
int strpalindrome(char fwd[],char rev[])
{
        int r=0,diff=0;
   reversestring(fwd,rev);
   printf("\n%s",rev);
   while(fwd[r]!='\0')
   {
        diff=fwd[r]-rev[r];
        r++;
   }
        if(diff==0)
        {
         printf("\nstring is palindrome");
      }
                else
        {
                printf("\nstring is not palindrome");
             }

}
```

OUTPUT:


enter the string LOOL
enter another string POOL
length of the string 4
reverse of a string LOOL -> LOOL
copy of string LOOL is LOOL
strings are same .concatenated string -> LOOLPOOL
LOOL
string is palindrome

Process exited after 9.414 seconds with return value 21
Press any key to continue . . .