

String Functions

```
#include<stdio.h>

#include<string.h>

void main()

{

    printf("=====\n");

    printf("Using strlen() Function \n");

    char ch[]={'g', 'e', 'e', 'k', 's', '\0'};

    printf("Length of string is: %d", strlen(ch));

    printf("\n");

    printf("Length of string Viraj_Thakkar is: %d", strlen("Viraj_Thakkar"));

    printf("\n");


    char str1[]="Hello Geeks!";

    char str2[] = "GeeksforGeeks";

    char str3[40];

    char str4[40];

    char str5[] = "GfG";


    strcpy(str2, str1); //string 1 is copied into string 2 overwriting string1.

    strcpy(str3, "Copy successful"); // copied in string 3

    strcpy(str4, str5); //string 5 is copied into string 4.

    printf ("str1: %s\nstr2: %s\nstr3: %s\nstr4: %s\n", str1, str2, str3, str4);

    printf("=====\n");


    printf("Using strcmp() Function \n");

    char leftStr[] = "g f g";
```

String Functions

```
char rightStr[] = "g f g";  
  
int res = strcmp(leftStr, rightStr);  
  
if (res==0)  
    printf("Strings are equal \n");  
  
else  
    printf("Strings are unequal \n");  
  
  
printf("\nValue returned by strcmp() is: %d" , res); // Here Output will be zero if both string  
equal.
```

```
printf("\n");
```

```
printf("z has greater ASCII value than g \n");
```

```
char leftStr1[] = "zfz";
```

```
char rightStr1[] = "gfg";
```

```
res = strcmp(leftStr1, rightStr1);
```

```
if (res==0)
```

```
    printf("Strings are equal \n");
```

```
else
```

```
    printf("Strings are unequal \n");
```

```
printf("\nValue of result: %d" , res);
```

```
// b has less ASCII value than g
```

```
char leftStr2[] = "bfb";
```

```
char rightStr2[] = "gfg";
```

String Functions

```
res = strcmp(leftStr2, rightStr2);
```

```
if (res==0)
```

```
    printf("Strings are equal \n");
```

```
else
```

```
    printf("Strings are unequal \n");
```

```
printf("\nValue returned by strcmp() is: %d \n" , res);
```

```
printf("=====\n");
```

```
printf("\n String Concatenation Funtion \n");
```

```
printf("=====\n");
```

```
char dest[50] = "This is an";
```

```
char src[50] = " example";
```

```
strcat(dest, src);
```

```
printf("String dest Value is --- %s", dest) ;
```

```
printf("\n String Reverse Function strrev() \n" );
```

```
char str[50] = "Viraj";
```

```
printf("The given string is =%s\n",str);
```

String Functions

```
printf("After reversing string is =%s \n",strrev(str));

printf("=====\n");


printf("\n");

printf("=====\n");

printf("\n strstr() Function \n");

printf("=====\n");

char s1[] = "GeeksforGeeks";

char s2[] = "for";

char* p;


// Find first occurrence of s2 in s1

p = strstr(s1, s2);


// Prints the result

if (p) {

    printf("String found\n");

    printf("First occurrence of string '%s' in '%s' is '%s'", s2, s1, p);

} else

    printf("String not found\n");

}
```