C-97 → Passing string as an Argument
to a function

Example ①

```
void display (char []);


void main()
{
    char str[] = "Jenny";
    display (str);
}

void display (char str[])
{
    printf ("string is %.s", str1);
}
```
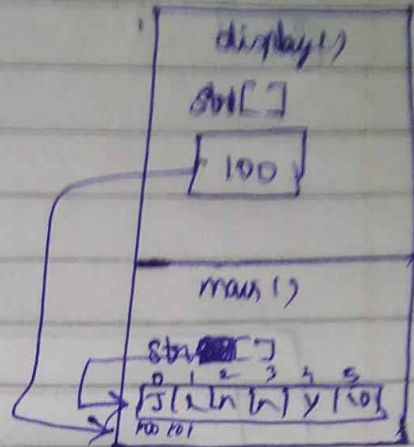


```
O/P ⇒ Jenny.
```

Example ②

```
void modify (char [], char []);


void main()
{
    char str1[] = "Jenny";
    char str2[] = "Khatri";
    modify(str1, str2);
}

void display (char str1[], char str2[])
{
    int i, length = 0;
    for(i=0; str1[i] != '\0'; i++)
    {
        length = length + str1[i];
    }
}
```

printf (". Length of string(s) is %d", length);

str2[i] = 'K';

printf (" string 2 (str2) is %s", str2);

printf (" %s %s ", str1.str2);

}

main()

Str1 1 2 3 4 5
| J | e | n | n | y | 10 |
101 102 103 104 105 106

Str2
| K | h | a | t | r | i |
201 202 203

display()

str 1 | str 2
| 101 | | 201 |
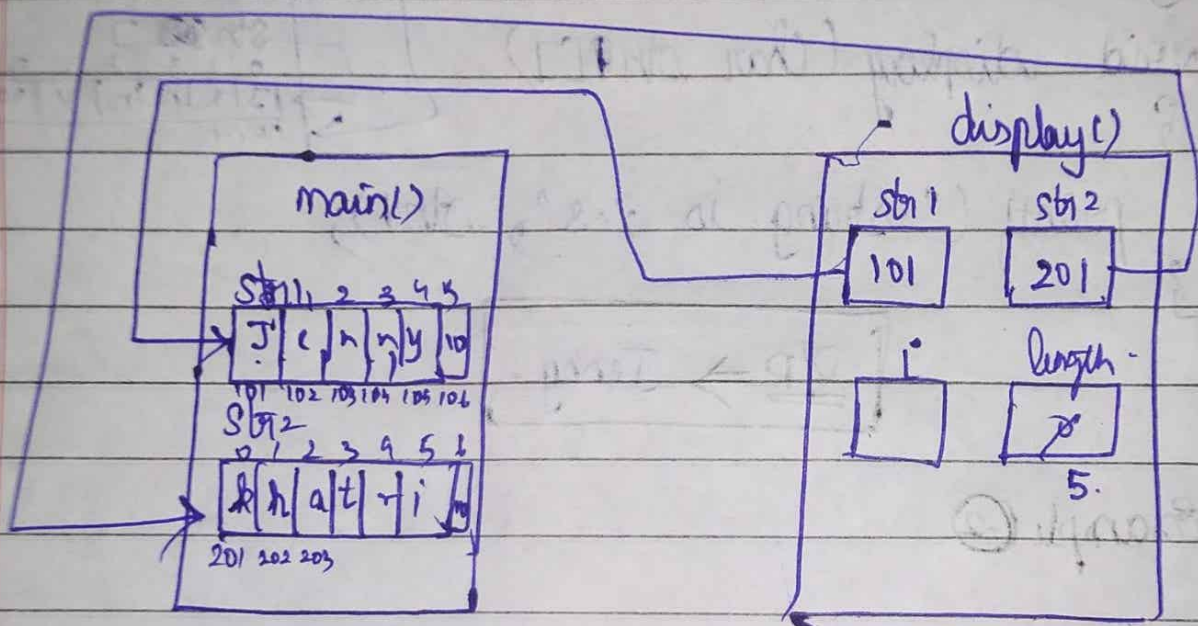
i | length
| | | 8 |
5.
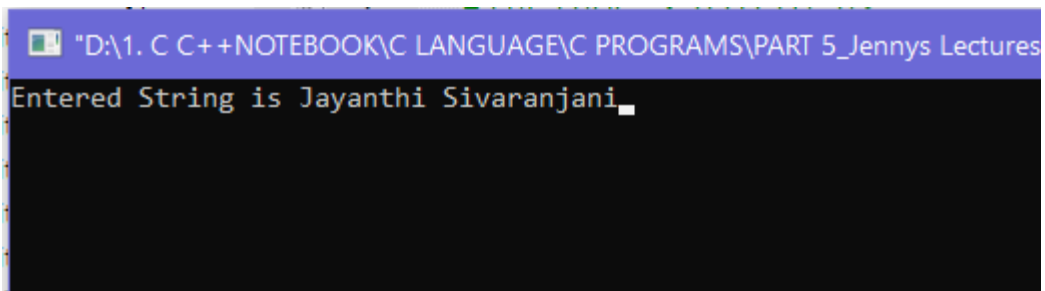
O/P ⇒ Length of string is 5
string2 (str2) is kkatri
Jenny kkatri

```c
#include <stdio.h>
#include <stdlib.h>
/** 1 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
/** Display function call **/
void display(char[]);

int main()
{
char str[]="Jayanthi Sivaranjani";
display(str);
getch();
}
void display(char str1[])
{
  printf("Entered String is %s",str1);
}
```

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Entered String is Jayanthi Sivaranjani

```c
#include <stdio.h>
#include <stdlib.h>
/** 2 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
/** Modify string function call **/
void modify(char[],char[]);

int main()
{
 char str1[]="Jayanthi";
 char str2[]="Sivaranjani";
 printf("Entered String in main function %s %s\n",str1,str2);
 modify(str1,str2);
 getch();
}
void modify(char str1[],char str2[])
{
   str1="JAYANTHI";
   str2="SIVARANJANI";
   printf("Entered String in modify function %s %s\n",str1,str2);

   int i=0,length=0;
   for(i=0;str1[i]!='\0';i++)
   {
     length=length+1;
   }
   printf("Length of string 1 is %d",length);
}
```

```
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Entered String in main function Jayanthi Sivaranjani
Entered String in modify function JAYANTHI  SIVARANJANI
Length of string 1 is 8
```
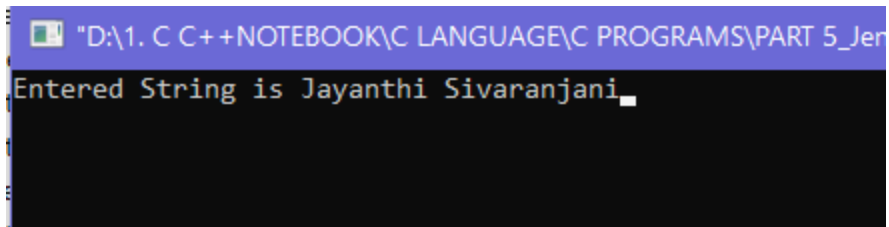
```c
#include <stdio.h>
#include <stdlib.h>
/** 1 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
/** Display function call **/
void display(char*); //or void display(char[])

int main()
{
char str[]="Jayanthi Sivaranjani";
display(str); //base address of the string is only passed
getch();
}
void display(char* str1)//or void display(char str1[])
{
  printf("Entered String is %s",str1);
}
```

```
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Entered String is Jayanthi Sivaranjani_
```

```
1    #include <stdio.h>
2    #include <stdlib.h>
3    /** 2 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
4    /** Modify function call **/
5    void modify(char*,char*);
6    int main()
7  □{
8     char str1[]="Jayanthi";
9     char str2[]="Sivaranjani";
10    printf("\tMain function\n");
11    printf("Before modification in main:%s %s\n",str1,str2);
12     modify(str1,str2);
13     printf("After modify() function call in main:%s %s\n",str1,str2);
14     getch();
15  └}
16   void modify(char* str1,char* str2)
17  □{
18    printf("\tmodify() function\n");
19    printf("Before modification in modify():%s %s\n",str1,str2);
20    str1[1]='e'; str2[0]='s';
21    printf("After modification in modify():%s %s\n",str1,str2);
22    int i=0,length=0;
23    for(i=0;str1[i]!='\0';i++)
24  □ {
25     length=length+1;
26  ├ }
27    printf("Length of string 1 is %d\n",length);
28    }
```

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```
        Main function
Before modification in main:Jayanthi Sivaranjani
        modify() function
Before modification in modify():Jayanthi Sivaranjani
After modification in modify():Jeyanthi sivaranjani
Length of string 1 is 8
After modify() function call in main:Jeyanthi sivaranjani
```

```
3      /** 3 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
4      /** Modify function call **/
5      /** using string copy we modify the entire string in main from called function**/
6      void modify(char*,char*); //here defined in another way
7      int main()
8      {
9        char str1[]="Jayanthi";
10       char str2[]="Sivaranjani";
11       printf("Entered string 1 in main before function call:%s\n",str1);
12       printf("Entered string 2 in main before function call:%s\n",str2);
13        modify(str1,str2);
14        //printf("Entered string in main after function call:%s %s\n",str1,str2);
15        printf("strings also got changed in main after function call \n");
16        puts(str1);
17        puts(str2);
18        getch();
19      }
20       void modify(char* str1,char* str2)
21       {
22         strcpy(str1,"Hello World");
23         strcpy(str2,"How are you");
24         // printf("Entered string in modify():%s %s\n",str1,str2);
25       printf("Modified string in modify() \n");
26       puts(str1);
27         puts(str2);
28         }
29
```

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```
Entered string 1 in main before function call:Jayanthi
Entered string 2 in main before function call:Sivaranjani
Modified string in modify()
Hello World
How are you
strings also got changed in main after function call
Hello World
How are you
```

```c
#include <stdlib.h>
#include <stdio.h>
#include <conio.h>
/** 4 - PASSING STRING AS AN ARGUMENT TO FUNCTION **/
/** Example for before program **/
/** using string copy function **/
void change(char *a);

int main()
{
    char a[] = "hello";
    printf("Before function call in main(), string is %s\n",a);
    change(a);
    printf("After function call in main(), string is %s\n",a);
    getch();
}

void change(char *a)
{
    printf("Before change in change(), string is %s\n",a);
    strcpy(a,"goodbye");
    printf("After change in change(), string is %s\n",a);
}
```


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```
Before function call in main(), string is hello
Before change in change(), string is hello
After change in change(), string is goodbye
After function call in main(), string is goodbye
```