```c
1  #include <stdio.h>
2
3  #define MAX_STRING_LENGTH 512
4
5  int main(void)
6  {
7      //function prototype
8      int MyStrlen(char[]);
9
10     //variable declarations
11     char chArray[MAX_STRING_LENGTH]; // A Character Array Is A String
12     int iStringLength = 0;
13
14     //code
15
16     // *** STRING INPUT ***
17     printf("\n\n");
18     printf("Enter A String : \n\n");
19     gets_s(chArray, MAX_STRING_LENGTH);
20
21     // *** STRING OUTPUT ***
22     printf("\n\n");
23     printf("String Entered By You Is : \n\n");
24     printf("%s\n", chArray);
25
26     // *** STRING LENGTH ***
27     printf("\n\n");
28     iStringLength = MyStrlen(chArray);
29     printf("Length Of String Is = %d Characters !!!\n\n", iStringLength);
30
31     return(0);
32 }
33
34 int MyStrlen(char str[])
35 {
36     //variable declarations
37     int j;
38     int string_length = 0;
39
40     //code
41     // *** DETERMINING EXACT LENGTH OF THE STRING, BY DETECTING THE FIRST
           OCCURENCE OF NULL-TERMINATING CHARACTER ( \0 ) ***
42     for (j = 0; j < MAX_STRING_LENGTH; j++)
43     {
44         if (str[j] == '\0')
45             break;
46         else
47             string_length++;
48     }
49     return(string_length);
50 }
51
```