

```
1  #include <stdio.h>
2  #include <ctype.h> //for toupper()
3
4  #define MAX_STRING_LENGTH 512
5
6  int main(void)
7  {
8      //function prototype
9      int MyStrlen(char[]);
10
11     //variable declarations
12     char chArray[MAX_STRING_LENGTH], chArray_CapitalizedFirstLetterOfEveryWord
13         [MAX_STRING_LENGTH]; // A Character Array Is A String
14     int iStringLength;
15     int i, j;
16
17     //code
18
19     // *** STRING INPUT ***
20     printf("\n\n");
21     printf("Enter A String : \n\n");
22     gets_s(chArray, MAX_STRING_LENGTH);
23
24     iStringLength = MyStrlen(chArray);
25     j = 0;
26     for (i = 0; i < iStringLength; i++)
27     {
28         if (i == 0)
29             chArray_CapitalizedFirstLetterOfEveryWord[j] = toupper(chArray[i]);
30
31         else if (chArray[i] == ' ')
32         {
33             chArray_CapitalizedFirstLetterOfEveryWord[j] = chArray[i];
34             chArray_CapitalizedFirstLetterOfEveryWord[j + 1] = toupper(chArray[i + 1]);
35
36             //SINCE, ALREADY TWO CHARACTERS (AT INDICES 'i' AND i + 1 HAVE BEEN
37             //CONSIDERED IN THIS else-if BLOCK...WE ARE EXTRA-INCREMENTING 'i' AND
38             //'j' BY 1
39             j++;
40             i++;
41         }
42
43         else
44             chArray_CapitalizedFirstLetterOfEveryWord[j] = chArray[i];
45
46         j++;
47     }
48
49     chArray_CapitalizedFirstLetterOfEveryWord[j] = '\\0';
50
51     // *** STRING OUTPUT ***
```

```
49     printf("\n\n");
50     printf("String Entered By You Is : \n\n");
51     printf("%s\n", chArray);
52
53     printf("\n\n");
54     printf("String After Capitalizing First Letter Of Every Word : \n\n");
55     printf("%s\n", chArray_CapitalizedFirstLetterOfEveryWord);
56
57     return(0);
58 }
59
60 int MyStrlen(char str[])
61 {
62     //variable declarations
63     int j;
64     int string_length = 0;
65
66     //code
67     // *** DETERMINING EXACT LENGTH OF THE STRING, BY DETECTING THE FIRST
        OCCURENCE OF NULL-TERMINATING CHARACTER ( \0 ) ***
68     for (j = 0; j < MAX_STRING_LENGTH; j++)
69     {
70         if (str[j] == '\0')
71             break;
72         else
73             string_length++;
74     }
75     return(string_length);
76 }
77
```