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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Problem Solving Through Programming In C (course)



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Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 7 : Programming Assignment 1

Due on 2023-09-14, 23:59 IST

Write a C Program to Count Number of Uppercase and Lowercase Letters in a given string. The given string may be a word or a sentence.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	Problem Solving through Programming in C.	Uppercase Letters : 4\nLowercase Letters : 31	Uppercase Letters : 4\nLowercase Letters : 31	Passed
Test Case 2	AICTE Approved FDP Course	Uppercase Letters : 10\nLowercase Letters : 12	Uppercase Letters : 10\nLowercase Letters : 12	Passed

The due date for submitting this assignment has passed.
2 out of 2 tests passed.
You scored 100.0/100.

Assignment submitted on 2023-09-02, 23:24 IST

Your last recorded submission was :

```
1 #include<stdio.h>
2 int main() {
3     int upper = 0, lower = 0;
4     char ch[100];
5     scanf("%[^\n]s", ch); /*A word or a sentence is accepted from test case
6
7 /* Complete the remaining part of the code to store number of uppercase lette
8 in the variable upper and lowercase letters in variable lower.
9 The print part of already written. You can declare any variable if necessary
```

Week 6 ()**Week 7 ()**

- Lecture 31 :
Linear Search
(unit?
unit=69&lesso
n=70)

- Lecture 32 :
Character
Array and
Strings (unit?
unit=69&lesso
n=71)

- Lecture 33 :
String
Operations
(unit?
unit=69&lesso
n=72)

- Lecture 34 : 2-
D Array
Operation
(unit?
unit=69&lesso
n=73)

- Lecture 35 :
Introducing
Functions
(unit?
unit=69&lesso
n=74)

- Quiz: Week 7:
Assignment 7
(assessment?
name=248)

- Week 7 :**
Programmin
g Assignment
1
(/noc23_cs12
1/progassign
ment?
name=249)

- Week 7 :**
Programming
Assignment 2
(/noc23_cs121
/progassignm

```

10 for(int i=0;ch[i]!='\0';i++)
11 {
12     if(ch[i]>='A' && ch[i]<='Z')
13         upper++;
14     else if(ch[i]>='a' && ch[i]<='z')
15         lower++;
16 }
17 printf("Uppercase Letters : %d\n", upper); /*prints number of uppercase letter
18     printf("Lowercase Letters : %d", lower); /*prints number of lowercase letter
19
20     return (0);
21 }

```

Sample solutions (Provided by instructor)

```

1 #include<stdio.h>
2 int main() {
3     int upper = 0, lower = 0;
4     char ch[100];
5     scanf(" %[^\\n]s", ch); /*A word or a sentence is accepted from test case
6
7     /* Complete the remaining part of the code to store number of uppercase letter
8     in the variable upper and lowercase letters in variable lower.
9     The print part of already written. You can declare any variable if necessary
10    int i = 0;
11    while (ch[i] != '\\0') {
12        if (ch[i] >= 'A' && ch[i] <= 'Z')
13            upper++;
14        if (ch[i] >= 'a' && ch[i] <= 'z')
15            lower++;
16        i++;
17    }
18    printf("Uppercase Letters : %d\n", upper); /*prints number of uppercase letter
19    printf("Lowercase Letters : %d", lower); /*prints number of lowercase letter
20
21    return (0);
22 }

```



ent?
name=250)

● Week 7 :
Programming
Assignment 3
(/noc23_cs121
/progassignm
ent?
name=251)

● Week 7 :
Programming
Assignment 4
(/noc23_cs121
/progassignm
ent?
name=252)

○ Feedback
Form of Week
7 (unit?
unit=69&lesso
n=255)

○ Assignment 7
Solution (unit?
unit=69&lesso
n=76)

Week 8 ()

Week 9 ()

Week 10 ()

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Solving
Session -
July 2023 ()**

