

Lab Report

Lab Report No : 6
Lab Report Name : Write a Program to Count the Blank Spaces in a String
Course Title : Compiler Design and Construction Sessional
Course Code : CSE-414
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Level : 4 **Term :** 1 **Section :** B **Group :**
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Key Learnings:

- Practice string traversal and character inspection.
- Use isspace() to detect various whitespace (space, tab, etc.).
- Handle input strings with leading/trailing spaces

Code Implementation:

```
Lab Works > C lab6.c > main()
1 #include <stdio.h>
2
3 int main(){
4     char str[200];
5     int count = 0, i;
6
7     printf("Enter a string: ");
8     fgets(str, sizeof(str), stdin);
9
10    for(i = 0; str[i] != '\0'; i++){
11        if(str[i] == ' ')
12            count++;
13    }
14
15    printf("Number of blank spaces: %d\n", count);
16
17    return 0;
18}
19
```

Input Sample:

Enter a string: This is a String

Output Sample:

```
● joha546@joha546:~/Projects/Compiler-Design-and-Construction/Lab Works$ gcc lab6.c -o lab6
● joha546@joha546:~/Projects/Compiler-Design-and-Construction/Lab Works$ ./lab6
Enter a string: This is a String
Number of blank spaces: 3
```