

Bangladesh Army International University of Science and Technology

Department of Computer Science and Engineering

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  {
5      char str[200];
6      int count = 0, i;
7
8      printf("Enter a string: ");
9      fgets(str, sizeof(str), stdin);
10
11     for(i = 0; str[i] != '\0'; i++){
12         if(str[i] == ' ')
13             count++;
14     }
15
16     printf("Number of blank spaces: %d\n", count);
17
18     return 0;
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
```