

Experiment -4

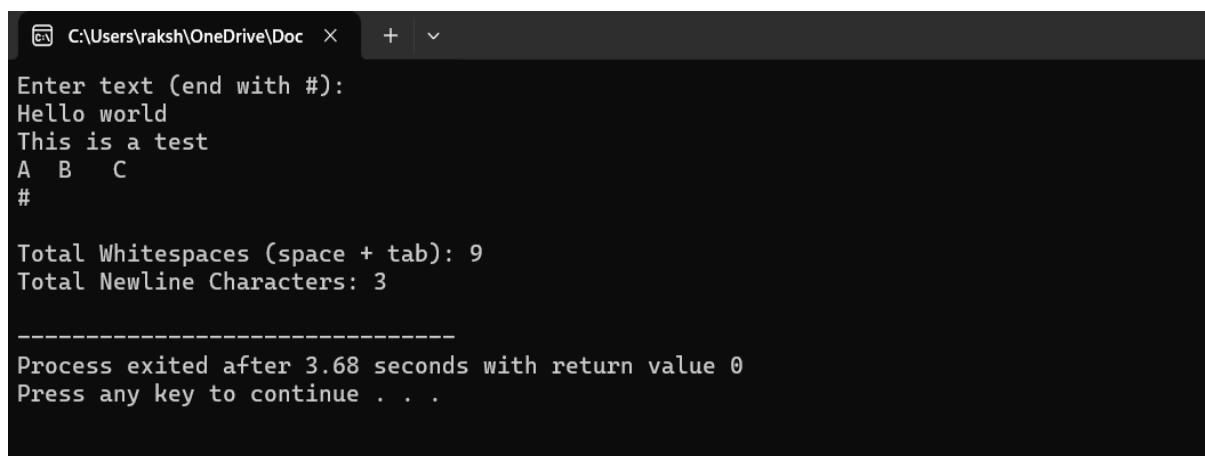
Design a lexical Analyzer to find the number of whitespaces and newline characters.

Program:

```
#include <stdio.h>

int main() {
    char ch;
    int spaces = 0, newlines = 0;
    printf("Enter text (end with #):\n");
    while ((ch = getchar()) != '#') {
        if (ch == ' ' || ch == '\t')
            spaces++;
        if (ch == '\n')
            newlines++;
    }
    printf("\nTotal Whitespaces (space + tab): %d\n", spaces);
    printf("Total Newline Characters: %d\n", newlines);
    return 0;
}
```

Output:



```
C:\Users\raksh\OneDrive\Doc X + ▾
Enter text (end with #):
Hello world
This is a test
A B C
#
Total Whitespaces (space + tab): 9
Total Newline Characters: 3
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Process exited after 3.68 seconds with return value 0
Press any key to continue . . .
```