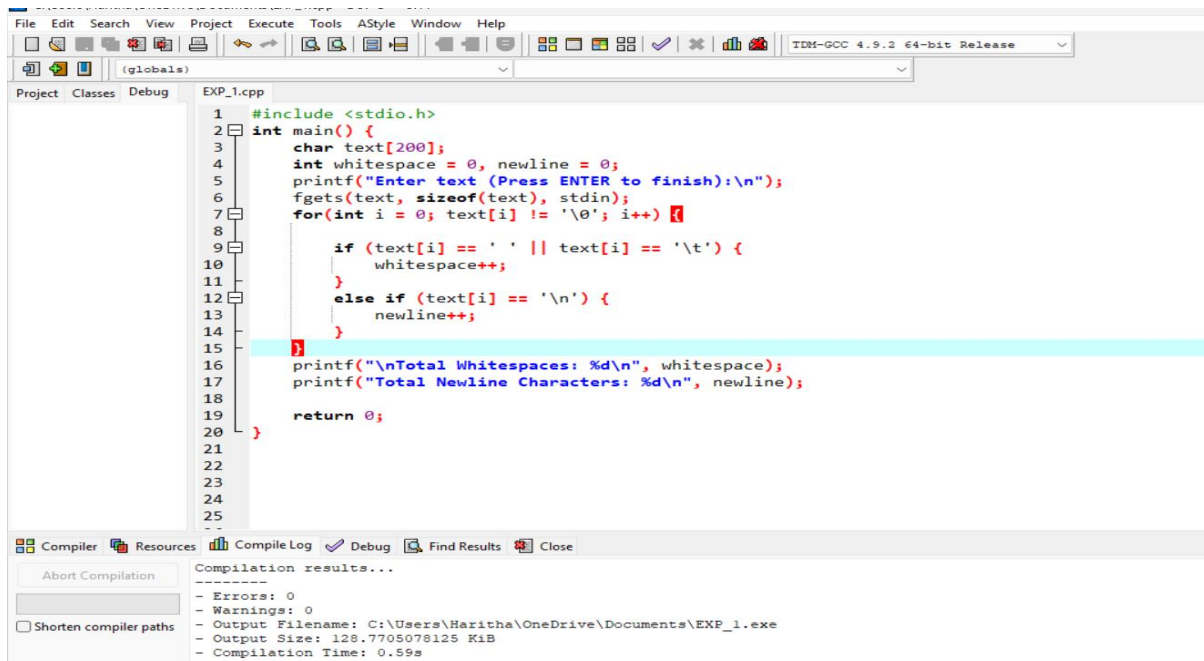


EXPERIMENT-5

AIM:

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

PROGRAM:

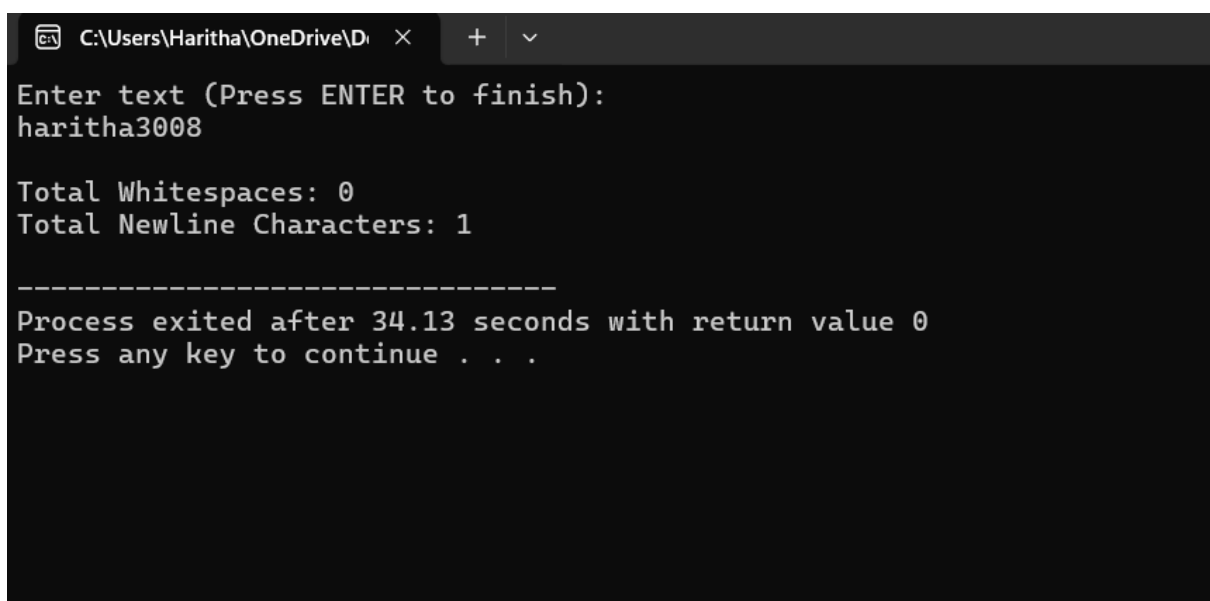


```
1 #include <stdio.h>
2 int main() {
3     char text[200];
4     int whitespace = 0, newline = 0;
5     printf("Enter text (Press ENTER to finish):\n");
6     fgets(text, sizeof(text), stdin);
7     for(int i = 0; text[i] != '\0'; i++) {
8
9         if (text[i] == ' ' || text[i] == '\t') {
10             whitespace++;
11         }
12         else if (text[i] == '\n') {
13             newline++;
14         }
15     }
16     printf("\nTotal Whitespaces: %d\n", whitespace);
17     printf("Total Newline Characters: %d\n", newline);
18
19     return 0;
20 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.59s

OUTPUT:



```
C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
Enter text (Press ENTER to finish):
haritha3008

Total Whitespaces: 0
Total Newline Characters: 1

-----
Process exited after 34.13 seconds with return value 0
Press any key to continue . . .
```