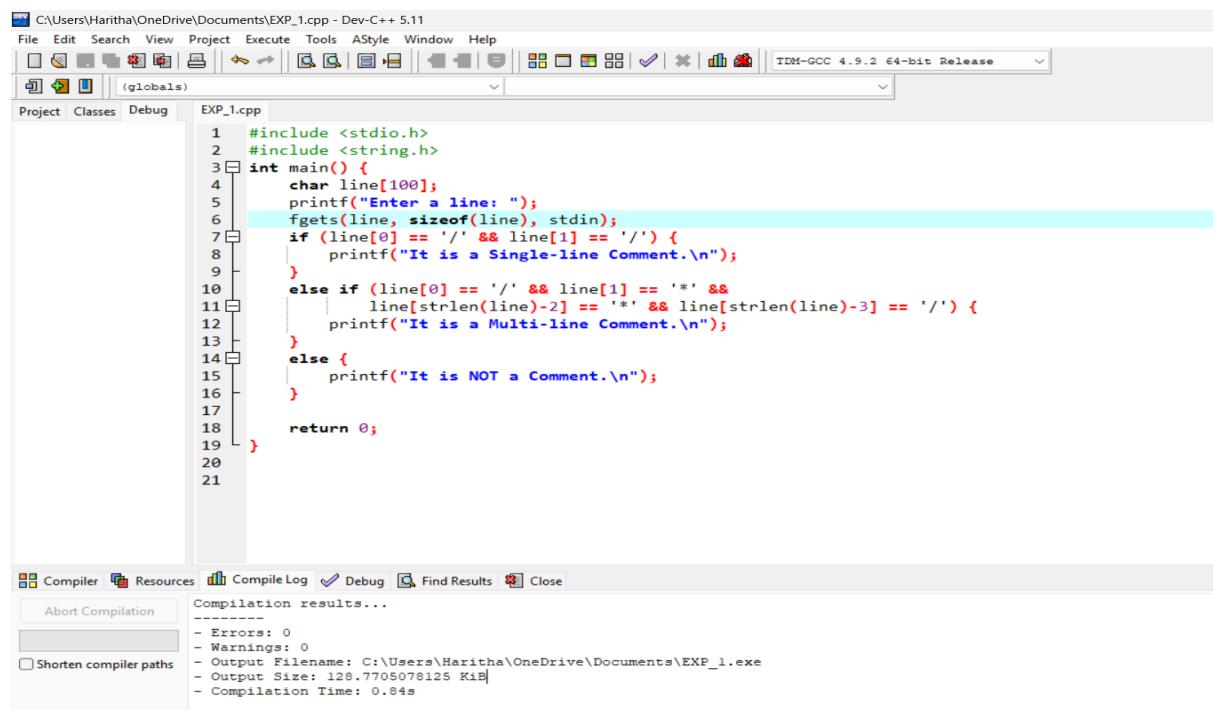


EXPERIMENT-2

AIM:

Develop a lexical Analyzer to identify whether a given line is a comment or not using C

PROGRAM:



The screenshot shows the Dev-C++ IDE interface. The main window displays a C++ source file named EXP_1.cpp. The code implements a lexical analyzer to determine if a given line is a comment. It includes headers <stdio.h> and <string.h>, defines a main function, reads a line from standard input, and checks for single-line and multi-line comments using if statements. The code is color-coded for syntax. Below the editor, the compiler log shows the compilation results, indicating 0 errors and 0 warnings, and providing the output filename (C:\Users\Haritha\OneDrive\Documents\EXP_1.exe), size (128.7705078125 KiB), and time (0.84s).

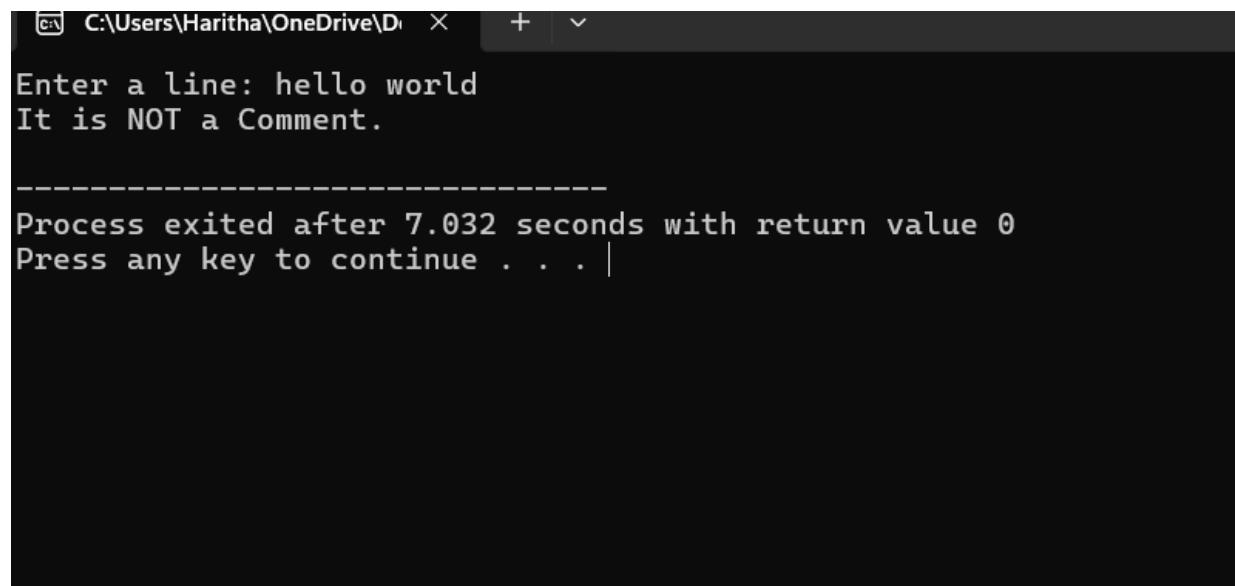
```
1 #include <stdio.h>
2 #include <string.h>
3 int main() {
4     char line[100];
5     printf("Enter a line: ");
6     fgets(line, sizeof(line), stdin);
7     if (line[0] == '/' && line[1] == '/') {
8         printf("It is a Single-line Comment.\n");
9     }
10    else if (line[0] == '*' && line[1] == '*' &&
11              line[strlen(line)-2] == '*' && line[strlen(line)-3] == '/') {
12        printf("It is a Multi-line Comment.\n");
13    }
14    else {
15        printf("It is NOT a Comment.\n");
16    }
17
18    return 0;
19
20
21 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Haritha\OneDrive\Documents\EXP_1.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.84s

OUTPUT:



The screenshot shows a terminal window with the command prompt C:\Users\Haritha\OneDrive\Di. The user enters the line "hello world" and the program outputs "It is NOT a Comment.". The terminal then displays a standard Windows-style message at the end of the process.

```
Enter a line: hello world
It is NOT a Comment.

-----
Process exited after 7.032 seconds with return value 0
Press any key to continue . . . |
```