Lab Program - 2

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

**Code:**

#include <stdio.h>

#include <string.h>

int isComment(char \*line) {

if (line[0] == '/' && line[1] == '/') {

return 1; // Single-line comment

}

if (line[0] == '/' && line[1] == '\*') {

int len = strlen(line);

if (len >= 4 && line[len - 2] == '\*' && line[len - 1] == '/') {

return 1; // Multi-line comment in a single line

}

}

return 0;

}

int main() {

char line[200];

printf("Enter a line: ");

fgets(line, 200, stdin);

if (isComment(line)) {

printf("This is a comment.\n");

} else {

printf("This is not a comment.\n");

}

return 0;

}

**Screenshot for I/O:**

