UNIVERSITY OF INFORMATION TECHNOLOGY AND SCIENCES

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Lab Report

Course Code: CSE 352
Course Title: Compiler Lab.

Submitted By-

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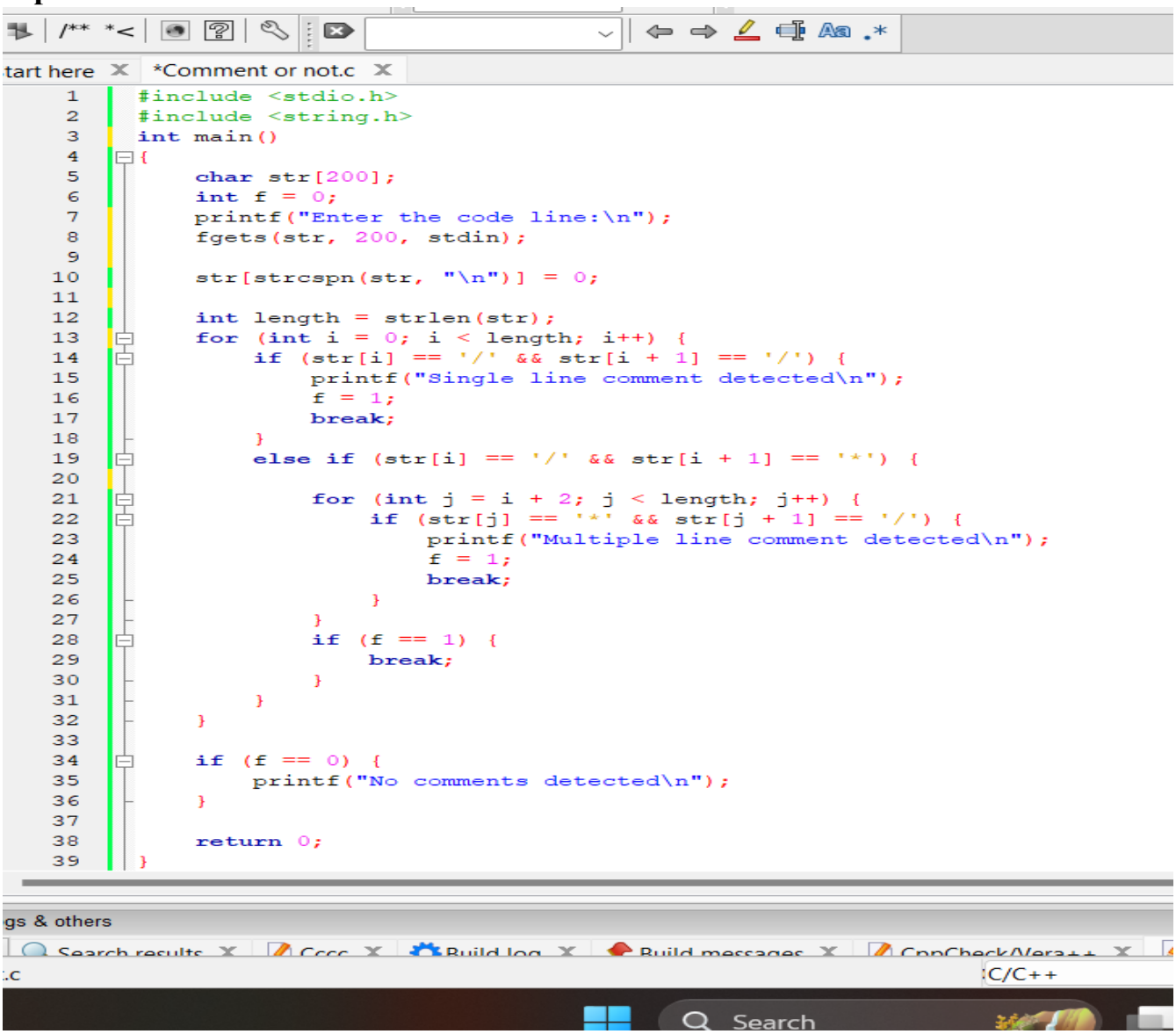
The Topic of Lab:
Find out a comment on a code.

Introduction:
In programming, finding a comment within a code is crucial for understanding the purpose, functionality, or context of that specific piece of code. Comments serve as notes written by developers to explain the code logic, improve readability, and facilitate collaboration among team members working on the same project. They provide valuable insights into the code's intended behavior and help developers troubleshoot or modify the code more effectively.

Input:



Output:

Comment or not.c

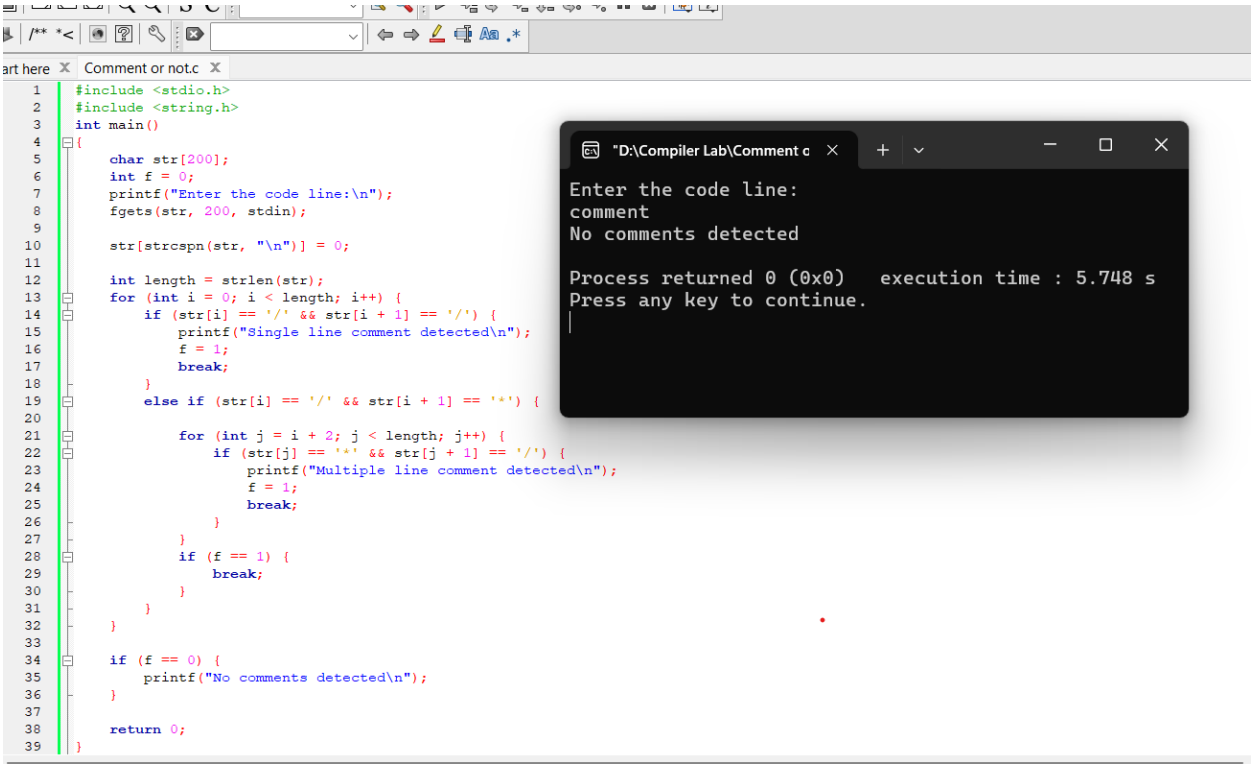
```c
#include <stdio.h>
#include <string.h>
int main()
{
    char str[200];
    int f = 0;
    printf("Enter the code line:\n");
    fgets(str, 200, stdin);

    str[strcspn(str, "\n")] = 0;

    int length = strlen(str);
    for (int i = 0; i < length; i++) {
        if (str[i] == '/' && str[i + 1] == '/') {
            printf("Single line comment detected\n");
            f = 1;
            break;
        }
        else if (str[i] == '/' && str[i + 1] == '*') {

            for (int j = i + 2; j < length; j++) {
                if (str[j] == '*' && str[j + 1] == '/') {
                    printf("Multiple line comment detected\n");
                    f = 1;
                    break;
                }
            }
            if (f == 1) {
                break;
            }
        }
    }

    if (f == 0) {
        printf("No comments detected\n");
    }

    return 0;
}
```

```
"D:\Compiler Lab\Comment c
Enter the code line:
printf("Check");//comment
Single line comment detected

Process returned 0 (0x0)   execution time : 22.333 s
Press any key to continue.
```

here | Comment or not.c

```c
#include <stdio.h>
#include <string.h>
int main()
{
    char str[200];
    int f = 0;
    printf("Enter the code line:\n");
    fgets(str, 200, stdin);

    str[strcspn(str, "\n")] = 0;

    int length = strlen(str);
    for (int i = 0; i < length; i++) {
        if (str[i] == '/' && str[i + 1] == '/') {
            printf("Single line comment detected\n");
            f = 1;
            break;
        }
        else if (str[i] == '/' && str[i + 1] == '*') {

            for (int j = i + 2; j < length; j++) {
                if (str[j] == '*' && str[j + 1] == '/') {
                    printf("Multiple line comment detected\n");
                    f = 1;
                    break;
                }
            }
            if (f == 1) {
                break;
            }
        }
    }

    if (f == 0) {
        printf("No comments detected\n");
    }

    return 0;
}
```

```
"D:\Compiler Lab\Comment c
printf("Check comment");/*comment*/
Multiple line comment detected

Process returned 0 (0x0)   execution time : 90.331 s
Press any key to continue.
```



Conclusion:

It is a simple code to find out a comment from a code and it is run successfully.