



# 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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Date of Submission: 08/09/2024

#### 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:**

```
√ | ← → <u>/</u> 🗐 🙈 .*
tart here X *Comment or not.c X
    1
         #include <stdio.h>
         #include <string.h>
    2
    3
         int main()
       □ {
    5
             char str[2001;
             int f = 0;
    6
             printf("Enter the code line:\n");
    8
             fgets(str, 200, stdin);
    9
             str[strcspn(str, "\n")] = 0;
   10
   11
   12
             int length = strlen(str);
             for (int i = 0; i < length; i++) {
   if (str[i] == '/' && str[i + 1] == '/') {</pre>
   13
   14
   15
                     printf("Single line comment detected\n");
   16
   17
                     break:
   18
   19
                  else if (str[i] == '/' && str[i + 1] == '*') {
   20
                      for (int j = i + 2; j < length; j++) {
   if (str[j] == '*' && str[j + 1] == '/') {</pre>
   21
   22
   23
                              printf("Multiple line comment detected\n");
   24
                              f = 1;
   25
                              break:
   26
   27
                      if (f == 1) {
   28
   29
                          break:
   30
   31
   32
             }
   33
             if (f == 0) {
   34
   35
                 printf("No comments detected\n");
   36
   37
   38
             return 0;
   39
gs & others
C/C++
.c
```

**Output:** 

```
e X Comment or not.c X
    #include <stdio.h>
#include <string.h>
    int main()
          char str[200];
          int f = 0;
printf("Enter the code line:\n");
                                                                                "D:\Compiler Lab\Comment c × + ~
          fgets(str, 200, stdin);
                                                                              Enter the code line:
printf("Check");//comment
Single line comment detected
          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");</pre>
                                                                              Process returned 0 (0x0)
                                                                                                                           execution time : 22.333 s
                                                                              Press any key to continue.
               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");</pre>
                              break:
                    if (f == 1) {
                         break;
          if (f == 0) {
              printf("No comments detected\n");
          return 0:
```

```
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/** *< | • ? | ③
here X Comment or not.c X
1
         #include <stdio.h>
         int main()
               char str[200];
                                                                                                   "D:\Compiler Lab\Comment c ×
               int f = 0;
printf("Enter the code line:\n");
                                                                                                 printf("Check comment");/*comment*/
Multiple line comment detected
               fgets(str, 200, stdin);
9
10
               str[strcspn(str, "\n")] = 0;
11
12
13
14
15
16
               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;</pre>
                                                                                                 Process returned 0 (0x0) execution time : 90.331 s
                                                                                                 Press any key to continue.
17
18
19
20
                     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;</pre>
21
22
23
24
25
                                        break;
26
27
                           if (f == 1) {
28
29
30
31
                                 break;
32
33
               if (f == 0) {
   printf("No comments detected\n");
34
35
36
37
38
               return 0:
39
```

other

```
. 🗀 🚣 l 🛋 🗚 🚓 🚓 🗥 📶
art here X Comment or not.c X
        #include <stdio.h>
#include <string.h>
int main()
                                                                     "D:\Compiler Lab\Comment c ×
            char str[200];
            int f = 0;
printf("Enter the code line:\n");
                                                                    Enter the code line:
            fgets(str, 200, stdin);
                                                                    comment
                                                                    No comments detected
            str[strcspn(str, "\n")] = 0;
  10
11
12
13
14
            Process returned 0 (0x0)
                                                                                                        execution time : 5.748 s
                                                                    Press any key to continue.
  15
16
17
18
                 else if (str[i] == '/' && str[i + 1] == '*') {
  19
  20
21
22
23
                    for (int j = i + 2; j < length; j++) {
   if (str[j] == '*' && str[j + 1] == '/') {
      printf("Multiple line comment detected\n");</pre>
  24
25
                            break;
  26
27
28
                    if (f == 1) {
                         break;
  30
31
32
33
34
35
36
                printf("No comments detected\n");
  37
38
39
            return 0;
```

#### **Conclusion:**

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