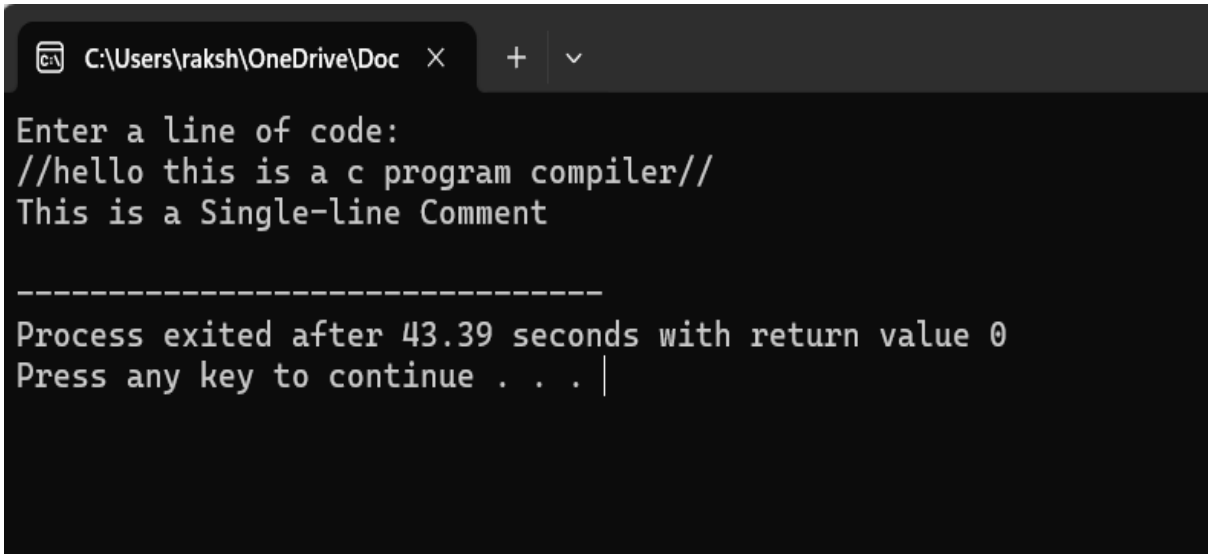
Experiment -2

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

Program:

```
#include <stdio.h>
#include <string.h>
int main() {
   char line[200];
   printf("Enter a line of code:\n");
   fgets(line, sizeof(line), stdin);
   int len = strlen(line);
   /* Remove newline character */
   if (line[len - 1] == '\n')
      line[len - 1] = '\0';
   /* Check for single-line comment */
   if (line[0] == '/' && line[1] == '/') {
      printf("This is a Single-line Comment\n");
   }
   /* Check for multi-line comment */
   else if (line[0] == '/' && line[1] == '*') {
      int L = strlen(line);
      if (line[L - 2] == '*' && line[L - 1] == '/')
         printf("This is a Multi-line Comment\n");
      else
         printf("Invalid Comment: Missing */\n");
   }
   else {
      printf("This is NOT a Comment\n");
   }
   return 0;}
```

Output:


C:\Users\raksh\OneDrive\Doc
Enter a line of code:
//hello this is a c program compiler//
This is a Single-line Comment

Process exited after 43.39 seconds with return value 0
Press any key to continue . . .