

## Experiment -27

**Develop a lexical Analyzer to count comment lines and remove them in a given c file using lexical program.**

Sample C Program:

```
#include <stdio.h>

// this is a single comment

int main() {
    /* multi
    line
    comment */
    printf("Hello");
}
```

Program:

```
%{
#include <stdio.h>

int single = 0, multi = 0;

%}

%%

"/".*      { single++; /* skip single-line comment */ }

"/*"([^\]|\"+[^/])*\\"/*" {
            multi++; /* skip multi-line comment */
        }

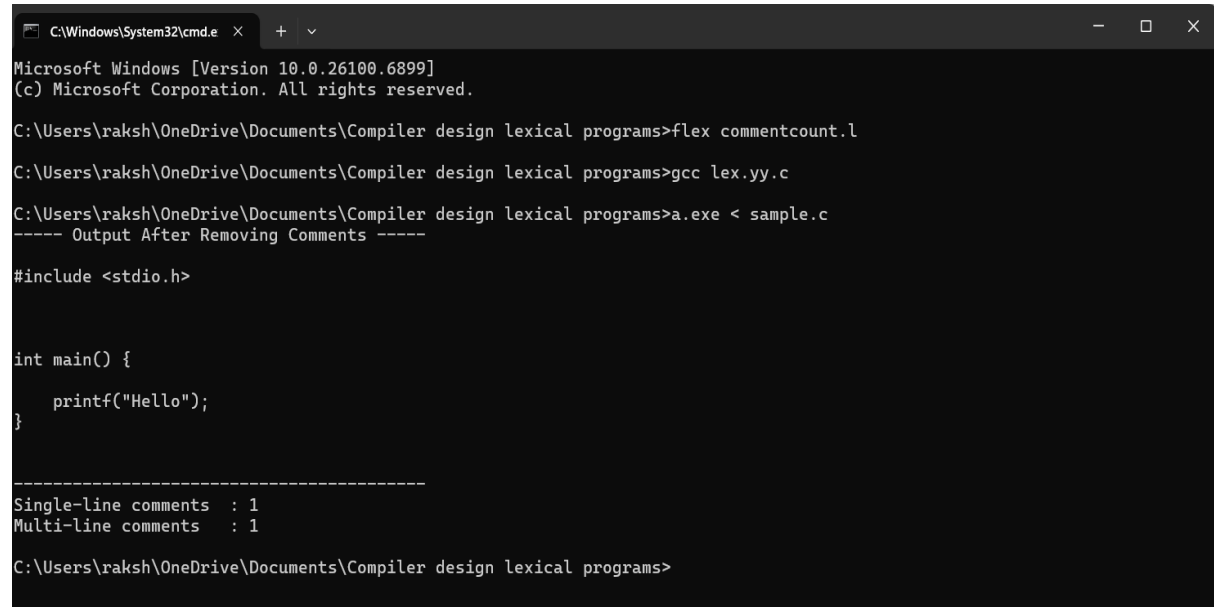
.\n        { putchar(yytext[0]); } /* print non-comment text */

%%

int main() {
    printf("----- Output After Removing Comments -----\\n\\n");
    yylex();
    printf("\\n\\n-----\\n");
    printf("Single-line comments : %d\\n", single);
```

```
    printf("Multi-line comments  : %d\n", multi);  
  
    return 0;  
}  
  
int yywrap() { return 1; }
```

## Output:



```
C:\Windows\System32\cmd.exe x + v  
Microsoft Windows [Version 10.0.26100.6899]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\raksh\OneDrive\Documents\Compiler design lexical programs>flex commentcount.l  
  
C:\Users\raksh\OneDrive\Documents\Compiler design lexical programs>gcc lex.yy.c  
  
C:\Users\raksh\OneDrive\Documents\Compiler design lexical programs>a.exe < sample.c  
----- Output After Removing Comments -----  
  
#include <stdio.h>  
  
int main() {  
    printf("Hello");  
}  
  
-----  
Single-line comments  : 1  
Multi-line comments   : 1  
  
C:\Users\raksh\OneDrive\Documents\Compiler design lexical programs>
```