ANTRIKSH SHARMA 20070122021

## CC LAB 02 | Lex Program

**Aim:** Count the number of comments, keywords, identifiers, words, lines and spaces from input file.

## Implementation:

```
%option noyywrap
%{
#include <stdio.h>
int comments = 0;
int keywords = 0;
int identifiers = 0;
int words = 0;
int lines = 0;
int spaces = 0;
%}
%%
"//"(.*[ \t]*.*)* { comments = comments + 1; }
"if" |
"else" |
"int" |
"class" { keywords = keywords + 1; }
^{[a-zA-Z][a-zA-Z]*} \{words = words + 1;\}
^[a-zA-Z][a-zA-Z0-9_]* {identifiers = identifiers + 1; }
[\n] { lines = lines +1; }
[ \t] { spaces = spaces + 1;}
%%
int main(int argc, char *argv[])
if (argc==2) {
yyin=fopen(argv[1],"r");
else {
printf("\nEnter the input:\n");
yyin=stdin;
yylex();
```

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```
printf("\n\nComments Encountered: %d", comments);
printf("\nKeywords Encountered: %d", keywords);
printf("\nIdentifiers Encountered: %d", identifiers);
printf("\nWords Encountered: %d", words);
printf("\nSpaces Encountered: %d", spaces);
printf("\nLines Encountered: %d", lines);
printf("\n");
return 0;
}
```

## **Input File**

## **Output:**

```
Comparison

Compar
```