Lex program to count the frequency of the given word in a file

lex countWord.l gcc lex.yy.c

```
./a.out
```

```
#include<stdio.h>
#include<string.h>
char word [] = "geeks";
int count = 0;
응 }
응응
[a-zA-Z]+ { if(strcmp(yytext, word)==0)
                   count++; }
응응
int yywrap()
    return 1;
int main()
        extern FILE *yyin, *yyout;
        yyin=fopen("input.txt", "r");
        yylex();
```

```
printf("%d", count);
}
```

Lex Program to remove comments from C program

```
lex abc.l (abc is the file name)
cc lex.yy.c -efl
./a.out
```

```
and save it in a file %/
/*Definition Section*/
/*Starting character sequence for multiline comment*/
start \/\*
/*Ending character sequence for multiline comment*/
end \*\/
/*Rule Section*/
/*Regular expression for single line comment*/
\/\/(.*);
/*Regular expression for multi line comment*/
{start}.*{end} ;
/*Driver function*/
int main(int k,char **argcv)
yyin=fopen(argcv[1],"r");
yyout=fopen("out.c","w");
/*call the yylex function.*/
yylex();
return 0;
```

}

Lex code to count total number of tokens

Lex 4.I

Cc lex.yy.c - Ifl

```
./a.out
```

```
응 {
int n = 0 ;
응 }
ુ
ૄ
"while"|"if"|"else" {n++;printf("\t keywords : %s", yytext);}
"int"|"float" {n++;printf("\t keywords : %s", yytext);}
[a-zA-Z ][a-zA-Z0-9 ]* {n++;printf("\t identifier : %s", yytext);}
"<="|"=="|"="|"++"|"-"|"*"|"+" {n++;printf("\t operator : %s",
yytext);}
[(){}|, ;] {n++;printf("\t separator : %s", yytext);}
[0-9]*"."[0-9]+ {n++;printf("\t float : %s", yytext);}
```

```
// count number of integers
[0-9]+ {n++;printf("\t integer : %s", yytext);}
. ;
%%
int main()
{
    yylex();
    printf("\n total no. of token = %d\n", n);
}
```

Check Even Or odd

Lex evenOrOdd.l gcc lex.yy.c

./a.out

```
int yywrap(){}

/* Driver code */
int main()
{

   yylex();
   return 0;
}
```