**Exp. No. 23**

Write a LEX program to count the number of Macros defined and header files included in the C program.

# **Input Source Program: (sample.c)**

#define PI 3.14

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b,c = 30;

printf("hello");

}

**Program: (count\_macro.l)**

%{

int nmacro, nheader;

%}

%%

^#define { nmacro++; }

^#include { nheader++; }

.|\n { }

%%

int yywrap(void) {

return 1;

}

int main(int argc, char \*argv[]) {

yyin = fopen(argv[1], "r");

yylex();

printf("Number of macros defined = %d\n", nmacro);

printf("Number of header files included = %d\n", nheader);

fclose(yyin);

}

**Output:**

G:\lex>flex count\_macro.l

G:\lex>gcc lex.yy.c

G:\lex>a.exe sample.c

Number of macros defined = 1

Number of header files included = 2

G:\lex>

