**PROGRAM 18:**

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");

}  
**LEX CODE:-**

%{

#include <stdio.h>

int macros = 0, headers = 0;

%}

%%

#define { macros++; }

#include { headers++; }

%%

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

yylex();

printf("Macros: %d\nHeaders: %d\n", macros, headers);

return 0;

}  
**C-PROGRAM:-**

#define PI 3.14

#include<stdio.h>

#include<conio.h>

void main()

{

int a, b, c = 30;

printf("hello");

}  
**OUTPUT:-**

