**Exp. No. 25**

Write a LEX program which adds line numbers to the given C program file and display the same in the standard output.

# **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: (addlinenos.l)**

%{

int yylineno;

%}

%%

^(.\*)\n printf("%4d\t%s", ++yylineno, yytext);

%%

int yywrap(void) {

return 1;

}

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

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

yylex();

fclose(yyin);

}

**Output:**

G:\lex>flex addlinenos.l

G:\lex>gcc lex.yy.c

G:\lex>a.exe sample.c

1 #define PI 3.14

2 #include<stdio.h>

3 #include<conio.h>

4 void main()

5 {

6 int a,b,c = 30;

7 printf("hello");

8 }

9

G:\lex>