

**Exp. No. 20**

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

**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);
}
```

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

```
#define PI 3.14
#include<stdio.h>
#include<conio.h>
void main()
{

int a,b,c = 30;

printf("hello");
}
```

## OUTPUT:

```
Microsoft Windows [Version 10.0.22621.2715]
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C:\Users\Deepak>d:

D:\>cd Slots

D:\Slots>cd Compiler Design

D:\Slots\Compiler Design>flex Ex5AddlineNumber.l

D:\Slots\Compiler Design>gcc lex.yy.c

D:\Slots\Compiler Design>a.exe Ex5AddlineNumber.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      }

D:\Slots\Compiler Design>
```