Exp. No. 17

Write a LEX program to print all the constants in the given C source program file.

```
Program: (countconstants.l)
digit [0-9]
%{
int cons=0;
%}
%%
{digit}+ { cons++; printf("%s is a constant\n", yytext); }
.| n \{ \}
%%
int yywrap(void) {
return 1; }
int main(void)
FILE *f;
char file[10];
printf("Enter File Name : ");
scanf("%s",file);
f = fopen(file,"r");
yyin = f;
yylex();
printf("Number of Constants : %d \ n", cons);
fclose(yyin);
Input Source Program: (sample.c)
      #define P1 3.14
      #include<stdio.h> #include<conio.h>
       void main()
       £
            int a,b,c = 30;
       printf("hello");
```

ОПТРП:

```
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 Ex2Constants.l
D:\Slots\Compiler Design>gcc lex.yy.c
D:\Slots\Compiler Design>a.exe Ex2Constants.c
Enter File Name : Ex2Constants
Number of Constants : 0
^C
D:\Slots\Compiler Design>a.exe Ex2Constants.c
Enter File Name : Ex2Constants.c
314 is a constant
30 is a constant
Number of Constants : 2
D:\Slots\Compiler Design>
```