Exp. No. 29

Write a LEX program to identify and count positive and negative numbers.

Program: (positive_neg_nums.l)

```
%{
int positive_no = 0, negative_no = 0;
%}
%%
^[-][0-9]+ {negative_no++;
                    printf("negative number = %s\n",
                            yytext);} // negative number

[0-9]+ {positive_no++;
                printf("positive number = %s\n",
                            yytext);} // positive number
%%
int yywrap(){}
int main()
{
yylex();
printf ("number of positive numbers = %d,"
                "number of negative numbers = %d\n",
                            positive_no, negative_no);
return 0;
}
```

INPUT:

```
-10

20
```

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 Ex14pov_neg.l

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

D:\Slots\Compiler Design>a.exe
-10
negative number = -10

20
positive number = 20
```