

Practical - 3

AIM: Write a lex program to count positive and negative numbers from the input file. (Note: It is compulsory to read the input from the file and display the results in another file)

Example program:

```
// lex file: a.l.
%{
  int postiveno=0;
  int negtiveno=0;
  int positivefractions=0;
  int negativefractions=0;
%}
DIGIT [0-9]
%%
\+?{DIGIT}+
                                postiveno++;
-{DIGIT}+
                                negtiveno++;
\+?{DIGIT}*\.{DIGIT}+
                              positivefractions++;
-{DIGIT}*\.{DIGIT}+
                              negativefractions++;
%%
main()
  yylex();
  printf("\nNo. of positive numbers: %d",postiveno);
  printf("\nNo. of Negative numbers: %d",negtiveno);
  printf("\nNo. of Positive fractions: %d",positivefractions);
  printf("\nNo. of Negative fractions: %d\n",negativefractions);
}
// Input file: a.txt
+12,-123,1.1,-1.1,12,-2,-3,2.1,3.2,5.1,-5.5,-6.1,-7.7,-8.8
```



Output:

No. of positive numbers: 2

No. of Negative numbers: 3

No. of Positive fractions: 4

No. of Negative fractions: 5