## 25. Write a LEX program to identify and count positive and negative Numbers

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PROGRAM:
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/* Definition section */
%option noyywrap
%%
/* Rule section */
[0-9]+
           printf("Positive number: %s\n", yytext);
           printf("Negative number: %s\n", yytext);
-[0-9]+
[0-9]+\.[0-9]+ printf("Positive decimal number: %s\n", yytext);
-[0-9]+\.[0-9]+ printf("Negative decimal number: %s\n", yytext);
         printf("Invalid input: %s\n", yytext);
%%
/* User code section */
int positive count = 0;
int negative count = 0;
int yywrap() {
  printf("Positive numbers: %d\n", positive count);
  printf("Negative numbers: %d\n", negative count);
  return 1;
}
int main() {
  yylex();
  return 0;
}
void yyerror(char *s) {
 printf("%s\n", s);
 INPUT:
    12
    -34
    56.78
    -90.12
    abc
```

## **OUTPUT:**

Positive number: 12 Negative number: -34

Positive decimal number: 56.78 Negative decimal number: -90.12

Invalid input: abc Positive numbers: 2 Negative numbers: 2