

For, Linux operating system use **sudo apt-get install flex** to install flex in the system.

1. Write a program in LEX to recognize Floating Point Numbers.

```
%{  
    /* Program to identify floating point numbers */  
    /* digit recognizes a single digit  
       num recognizes multiple digits i.e, a positive integer  
       snum recognizes a signed number */  
}%  
digit [0-9]  
num {digit}+  
snum [-+]?{num}  
%%  
({snum}(\.{num}))|([+-]?{num}\.{num}) {  
    /* A number is considered floating point only if there is a decimal point.  
       So consider all possible combinations of such */  
    printf ("==>%s is a floating-point number \n", yytext);  
}  
({snum}) {  
    /* Number without a decimal point is not considered a floating point number */  
    printf ("==>%s is not a floating-point number \n", yytext);  
}  
%%  
int yywrap() {  
    return 1; // Indicate the end of input  
}  
  
int main ()  
{  
    printf ("Enter any number: \n" );  
    yylex();  
    return 0;
```

}

2. Write a program in LEX to recognize different tokens: Keywords, Identifiers, Constants, Operators and Punctuation symbols