Lex program to identify tokens.

```
%{
#include<stdio.h>
%}

%%

[a-z]   return 'L';
[A-Z]   return 'L';
[0-9]   return 'D' ;
[/,*,-,+,%]    return 'O';
[!,@,#,$,^,&,(,)]   return 'S';


[1-7][0-7]*   return 'C';
[1-9][0-9]*   return 'F';
[A-F 0-9]* return 'H';
["(a-z A-Z 0-9 _ ;,@,#,$,&)* "]   return 'G';



if|else|while|for|do|switch|case|bool|float|int|char    return 'k';
[a-z A-Z 0-9 _ #,$,%,^,&,@]*   return 'I';
%%
int yywrap(){}
int main(){
char output;
```

```c
output=yylex();
switch(output){
case 'I':printf("Ientifier");
    break;
case 'L':printf("Letters");
    break;
case 'D':printf("Digits");
  break;
case 'O':printf("Operators");
    break;
case 'G':printf("String Constant");
    break;
case 'H':printf("Hexadecimal constant");
    break;
case 'F':printf("Decimal Constant");
    break;
case 'C':printf("Octal Constant");
    break;
case 'k':printf("Keywords");
    break;
}
return 0;}
```