**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;

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;}