%{

#include <stdio.h>

%}

%%

"int" { printf("<KEYWORD, %s>\n", yytext); }

"float" { printf("<KEYWORD, %s>\n", yytext); }

"char" { printf("<KEYWORD, %s>\n", yytext); }

"if" { printf("<KEYWORD, %s>\n", yytext); }

"else" { printf("<KEYWORD, %s>\n", yytext); }

"while" { printf("<KEYWORD, %s>\n", yytext); }

"for" { printf("<KEYWORD, %s>\n", yytext); }

"return" { printf("<KEYWORD, %s>\n", yytext); }

"[" { printf("<LEFT\_BRACKET, %s>\n", yytext); }

"]" { printf("<RIGHT\_BRACKET, %s>\n", yytext); }

"{" { printf("<LEFT\_BRACE, %s>\n", yytext); }

"}" { printf("<RIGHT\_BRACE, %s>\n", yytext); }

"(" { printf("<LEFT\_PAREN, %s>\n", yytext); }

")" { printf("<RIGHT\_PAREN, %s>\n", yytext); }

";" { printf("<SEMICOLON, %s>\n", yytext); }

"," { printf("<COMMA, %s>\n", yytext); }

"+" { printf("<OPERATOR\_ADD, %s>\n", yytext); }

"-" { printf("<OPERATOR\_SUB, %s>\n", yytext); }

"\*" { printf("<OPERATOR\_MUL, %s>\n", yytext); }

"/" { printf("<OPERATOR\_DIV, %s>\n", yytext); }

"%" { printf("<OPERATOR\_MOD, %s>\n", yytext); }

"=" { printf("<OPERATOR\_ASSIGN, %s>\n", yytext); }

"==" { printf("<OPERATOR\_EQUAL, %s>\n", yytext); }

"!=" { printf("<OPERATOR\_NOT\_EQUAL, %s>\n", yytext); }

"<" { printf("<OPERATOR\_LESS, %s>\n", yytext); }

">" { printf("<OPERATOR\_GREATER, %s>\n", yytext); }

"<=" { printf("<OPERATOR\_LESS\_EQUAL, %s>\n", yytext); }

">=" { printf("<OPERATOR\_GREATER\_EQUAL, %s>\n", yytext); }

[a-zA-Z\_][a-zA-Z0-9\_]\* { printf("<IDENTIFIER, %s>\n", yytext); }

[0-9]+ { printf("<INTEGER\_CONSTANT, %s>\n", yytext); }

[0-9]\*\.[0-9]+ { printf("<FLOAT\_CONSTANT, %s>\n", yytext); }

\".\*\" { printf("<STRING\_LITERAL, %s>\n", yytext); }

[ \t\n]+ /\* Ignore whitespace and tabs \*/

. { printf("Invalid token: %s\n", yytext); }

%%

int yywrap()

{

return 1;

}

int main() {

FILE \*input;

char file[50];

printf("enter filename=");

scanf("%s",file);

input=fopen(file,"r");

yyin=input;

yylex();

fclose(input);

return 0;

}

OUTPUT

