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

%%

[\t\n ]+        {}

if              |
class   |
div             |
do              |
file    |
begin   |
write   |
program |
end             |
writeln {
        fprintf(yyout, "%s --> KEYWORD\n", yytext);
        }


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

[0-9]+"."[0-9]* {
        fprintf(yyout, "%s --> FLOATING POINT\n", yytext);
        }
[a-zA-Z][a-zA-Z0-9]*    {

        fprintf(yyout, "%s --> IDENTIFIER\n", yytext);

}

"+"             |
"-"             |
"*"     |
"/"     {

        fprintf(yyout, "%s --> OPERATOR\n", yytext);

}

"{"[a-zA-Z0-9\n  \t]*"}"        {

        fprintf(yyout, "%s --> COMMENT\n", yytext);

}

"("[a-zA-Z0-9 \t]");"   {}

. {}

%%

int main()
{
        extern FILE *yyin;
        extern FILE *yyout;

        yyin = fopen("in.pascal", "r");

        if(yyin == NULL)
                printf("\nError!!!\nCan't open the file.\n");

        yyout = fopen("output_file.pascal", "w");

        yylex();
```

```
        fclose(yyin);
        fclose(yyout);

        return 0;
}
```