27. Implement Lexical Analyzer using LEX or FLEX (Fast Lexical Analyzer). The program should separate the tokens in the given C program and display with appropriate caption.

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

%%
int|char|float|double|void    { printf("Keyword: %s\n", yytext); }
[0-9]+                        { printf("Integer Literal: %s\n", yytext); }
\"([^\\\"]|\\.)*\"            { printf("String Literal: %s\n", yytext); }
\'([^\\\']|\\.)*\'            { printf("Character Literal: %s\n", yytext); }
[_a-zA-Z][_a-zA-Z0-9]*        { printf("Identifier: %s\n", yytext); }
[+\-*/=<>]                    { printf("Operator: %s\n", yytext); }
[;,()]                        { printf("Punctuation: %s\n", yytext); }
[ \t]                         ;  // skip whitespaces
\n                            { printf("End of Line\n"); }
.                             { printf("Other: %s\n", yytext); }

%%

int main() {
   yylex();
```

```
    return 0;

}

int yywrap() { return 1; }
```