## Documentation lab10

Source code: https://github.com/davidalexandru1370/LabLFTC/tree/lab9/lab10

Changes from previous laboratory at scanner file:

-scanner returns the matched token

```
Ubuntu 22.04.3 LTS
 %%
                    gram" { printf("%s - reserved word\n", yytext); return PROGRAM; }
in" { printf("%s - reserved word\n", yytext); return MYBEGIN; }
" { printf("%s - reserved word\n", yytext); return EMD; }
" { printf("%s - reserved word\n", yytext); return IMT; }
ing" { printf("%s - reserved word\n", yytext); return STRING; }
r" { printf("%s - reserved word\n", yytext); return CHAR; }
dInt" { printf("%s - reserved word\n", yytext); return EEDINT; }
{ printf("%s - reserved word\n", yytext); return ELSE; }
play" { printf("%s - reserved word\n", yytext); return DISPLAY; }
le" { printf("%s - reserved word\n", yytext); return WHILE; }
                                                                                     operator\n", yytext); return PLUS; }
operator\n", yytext); return MINUS; }
operator\n", yytext); return TIMES; }
operator\n", yytext); return DIV; }
operator\n", yytext); return LESSQ; }
operator\n", yytext); return EQS; }
operator\n", yytext); return BIGGERQ; }
operator\n", yytext); return BQQ; }
operator\n", yytext); return BQQ; }
operator\n", yytext); return BQQ; }
operator\n", yytext); return BQGER; }
                          printf("
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                       { printf("
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{ printf("%
                                                                                                                                   c\n", yytext); return BRACKETOPEN; 
c\n", yytext); return BRACKETCLOSE; }
c\n", yytext); return SEMICOLON; }
c\n", yytext); return OPEN; }
c\n", yytext); return CLOSE; }
c\n", yytext); return BRACKETOPEN; }
                          printf("%s
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```

Those tokens have been taken from yacc file

The grammar contains all the statements and expression to parse all the input files.

To run this yacc file we have to do the following steps:

Execute: yacc -d parser.yacc to get the y.tab.c and y.tab.h files

Execute: flex -I scanner.lxi to get the lex.yy.c file

Merge those together using: gcc -o a.exe y.tab.c lex.yy.c

This will output an executable file at a.exe

Running a.exe will print the following output:

