/\*\*

JFlex lesgreinir fyrir einfaldar formúlur.

Höfundur: Snorri Agnarsson

\*/

%%

%public

%class ExprLexer

%unicode

%{

private String lexeme;

public String getLexeme() { return lexeme; }

static public final int ERR = -1;

static public final int NUM = 1;

static public final int EOF = 0;

static public final int LITERAL = -2;

static public final int DECL = -3;

static public final int NAME = -4;

static public final int WHITESPACE = -5;

static public final int OPERATOR = -7;

static public final int DOT = -6;

%}

/\* Reglulegar skilgreiningar \*/

DIGIT=[0-9]

FLOAT={DIGIT}+(\.{DIGIT}+([eE][+-]?{DIGIT}+)?)?

OPERATOR=[+|\-|\*|/|<|>|\&|!|\|]+

\_STRING=\"([^\"\\]|\\b|\\t|\\n|\\f|\\r|\\\"|\\\'|\\\\|(\\[0-3][0-7][0-7])|\\[0-7][0-7]|\\[0-7])\*\"

\_CHAR=\'([^\'\\]|\\b|\\t|\\n|\\f|\\r|\\\"|\\\'|\\\\|(\\[0-3][0-7][0-7])|(\\[0-7][0-7])|(\\[0-7]))\'

\_NAME=([:letter:]|[\+\-\*/!%&=><\:\^\~&|?]|{DIGIT})+

\_SINGLESYMBOL=[{};\[\]\(\)\.]

\_BOOLEAN=null|true|false;

\_IGNORED=[ |\r|\n|\t]+

%%

{FLOAT} {

return new Yytoken(NUM,yytext());

}

{\_CHAR} | {\_STRING} | {\_BOOLEAN} {

return new Yytoken(LITERAL,yytext());

}

{OPERATOR} {

return new Yytoken(OPERATOR,yytext());

}

"var" {

return new Yytoken(DECL, yytext());

}

{\_NAME} {

return new Yytoken(NAME,yytext());

}

{\_SINGLESYMBOL} {

return new Yytoken(yycharat(0), yytext());

}

{\_IGNORED} {

}

. {

return new Yytoken(ERR);

}