Changes made:

1) Renamed some token codes for readability

2) Edited the regex for variable to include underscores

3) Redefined the order of operations priority to PEASMD – 6 level precedence

4) Included notes on key rules for the assignment such as variable naming and unavailable keywords

5) Fixed LL-Grammar by removing left recursion with algorithm and performing pairwise disjoint test

6) Implement shunting yard algorithm for order of operations

7) Created assign function that outputs the shunting yard algorithm in correct order of operations

8) Create datatype test for lexical rule 3

9) Identify parenthesis for order of precedence and differentiate different declaration statements

10) Created Boolean test and Boolean function to distinguish variables by inequality symbols

11) Implemented Variable naming convention kept to 6-8 characters and no numbers, else error.

12) Created a test for conditional statements. Conditional statements should be properly declared with Condi followed a left parenthesis followed by either a variable or integer followed by an inequality math symbol followed by another integer or variable followed by right parenthesis and ending with a brace.

13) Code with assignment requires parenthesis