Github code: https://github.com/Prah06/Programming lang hw

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1)code is in github and python file lex analyser hw3
2)<stmt> -> <var> = <expression>
<var> -> A|B|C
<expression>-><expression>+<term>
                 |<expression>-<term>
                 |<term>
<term>-> <term>*<factor>
               |<term>/<factor>
               |<term>%<factor>
               |<factor>
<factor>-><pow>^<factor>
       |<pow>
<pow>-> (<expression>)|<var>|<int lit>
3)<stmt> -> <var> = <expression>
<var> -> A|B|C
<expression> -> <term>+<expression>
        | <term>-<expression>
        | <term>
<term> -> <factor>*<term>
     | <factor>/<term>
     | <factor>%<term>
    | <factor>
<factor> -> <pow>^<factor>
      | <pow>
<pow> -> (<expression>)|<var>|<int_lit>
4) Decision tree for left associative is in the file cfg leftassociative
  Decision tree for right associative is in the file rfg_assocaitive
I did both of these using the mural application for the presentation of the diagram of decision tree
5) 1) for i := 0; i < 10; i += 1 {}
       for i := 0; i < 10; i = i + 1 {}
       for i := 0; i <= 10; i++ {}
       for i := 0; i != 10; i++ {}
       for i := 1; i <= 10; i++ \{\}
       for i := 10; i > 0; i -- {}
       for i := 10; i >= 0; i -- {}
       for ; ; PrimaryExpr {}
       for PrimaryExpr; ; {}
       for PrimaryExpr; ; PrimaryExpr {}
```

6)the last ones were long so i drew them on note book