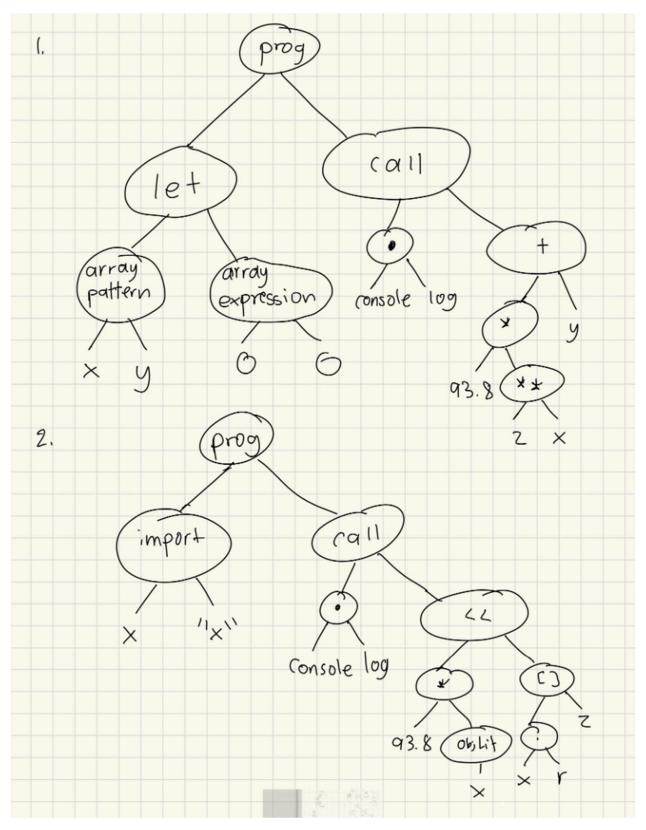
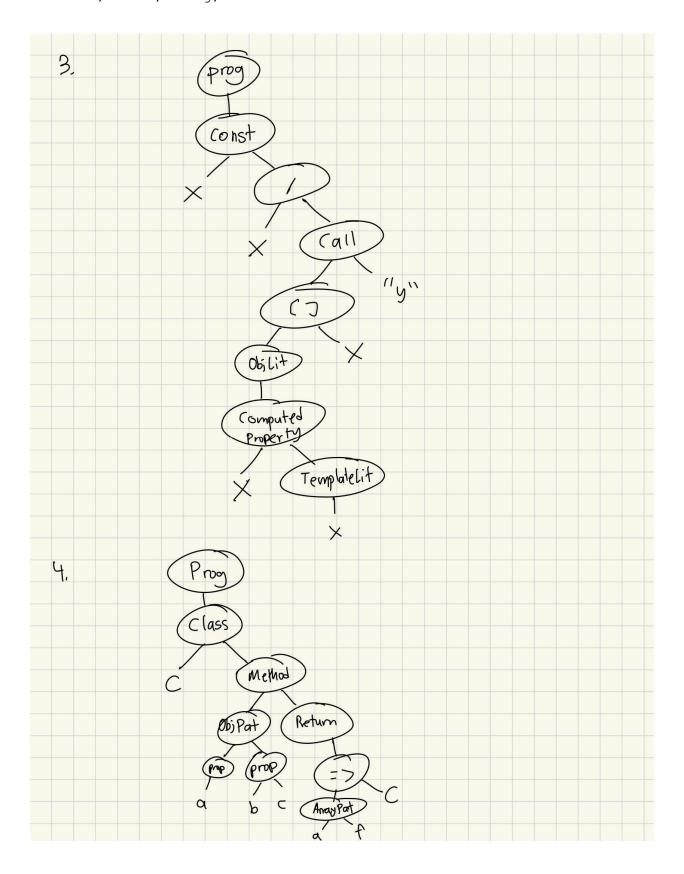
We have all read and watched the required material





```
5. a.
Exp = Exp "+" Term | Exp "-" Term | Term
Term = Term "*" Factor | Term "/" Factor | Term "%" Factor |
Factor
Factor = Primary "**" Factor | Primary
Primary = "-" Primary | num | id | " (" Exp ")"
b.
Exp = "-"? (Exp "+" Term | Exp "-" Term | Term)
Term = Term "*" Factor | Term "/" Factor | Term "%" Factor |
Factor
Factor = Primary "**" Factor | Primary
Primary = num | id | " (" Exp ")"
C.
Exp = Exp "+" Term | Exp "-" Term | Term
Term = Term "*" Factor | Term "/" Factor | Term "%" Factor |
Factor
Factor = Primary "**" Factor | "-"? Primary
Primary = num | id | " (" Exp ")"
6.
Astro plus {
  Program = StmtNoBreak+
  StmtNoBreak = id "=" Exp ";" --assign
          | "print" Exp ";" --print
```

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```
Cameron, Atul, Doug, Artur
          | IfStmtNoBreak
          | WhileStmt
  Stmt = id "=" Exp ";" --assign
     | "print" Exp ";" --print
     | IfStmt
    | WhileStmt
    | BreakStmt
  BreakStmt = break ";" --break
  WhileStmt = while Exp Block
  IfStmtNoBreak = if Exp BlockNoBreak else (BlockNoBreak)?
            | if Exp BlockNoBreak else IfStmtNoBreak
  IfStmt = if Exp Block else (Block)?
     | if Exp Block else IfStmt
  BlockNoBreak = "{" StmtNoBreak* "}"
  Block = "{" Stmt* "}"
  Exp = Condition ("<=" | "<" | "==" | "!=" | ">" | "=>")
Condition --binary
            | Condition
  Condition = Condition ("+" | "-") Term --add
              | Term
  Term = Term ("*" | "/" | "%") Factor --binary
               | Factor
  Factor = Primary "**" Factor --power
      | "-" Primary --negate
       | Primary
  Primary = id
        | numeral
         | "(" Exp ")" --parens
```

numeral = digit + ("." digit +)? (("E"|"e") ("+"|"-")? digit +)?

```
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```