Notes Lesson 2:

# Variables:

* Can use variables as placeholders (equations)

# Data Types:

* Includes:
  + String – used to represent text
  + Int – used to represent integers (no decimals)
  + Float – used to represent real numbers (with decimals - larger than double)
  + Double – used to represent real numbers (with decimals)
  + Boolean – T/F, can be used as an on/off
  + Char – represents single characters
  + Short – large numbers
  + Long – bigger range than short

# Declaring Variables:

* Format: “[dataType] [variableName];”

# Initializing Variables:

* To use a variable, it must be initialized (setting equal to an initial value)
  + Format: variableName = “[variableValue];”
* More common way to initialize is doing it as you declare
  + Format: “[dataType] [variableName] = [variableValue];”

# Arithmetic Operators:

* + = used for concatenation/addition
* - = used for subtraction
* \* = used for multiplication
* / = used for division
* % = used to calculate the remainder

# Concatenation

* Joins 2 or more terms together
* Add spaces within the quotes!