Name: Zach Caldwell
Class: CS 112-01
Date: Jan. 16, 2017

Cues:	**Notes:**
	1. Expressions
Expression definition	a. Any sort of programming statement or construct that can evaluate to a single value.
	b. Can be evaluated directly in the interactive shell.
	c. Example in IDLE:
Direct evaluation	i. >>> 2 + 2
	ii. 4
	d. Python supports a variety of math operators in expressions. In order of precedence:
Math operators	i. Parentheses: ()
	ii. Exponentiation: **
	iii. Modulus/remainder: %
	iv. Floored integer division: //
	v. Floating-point division: /
	vi. Multiplication: *
	vii. Subtraction: -
	viii. Addition: +
	2. Standard data types
	a. Integers:
What an ‘integer’ is	i. Whole numbers.
	ii. Examples: -1, 0, 1, 2
	b. Floating-point numbers:
What a ‘float’ is	i. Fractional numbers.
	ii. Examples: -1.25, -0.5, 1.0, 3.14
	c. Strings:
What a ‘string’ is	i. Arrays of bytes or characters; text.
	ii. Must be enclosed in single quotes (’’).
	iii. Examples: ‘abc’, ‘Hello world!’
String operations	iv. Can be “concatenated” (meaning joined) or modified in other ways using standard operators. Example:
	1. >>> 'Alice' + 'Bob'
	2. 'AliceBob'
	3. >>> 'Alice' * 5
	4. 'AliceAliceAliceAliceAlice'
	3. Variables
What a ‘variable’ is	a. A container for storing a specific value or reference, e.g. one of the standard data types.

Name: Zach Caldwell
Class: CS 112-01
Date: Jan. 16, 2017

Cues:	**Notes:**
	b. Created on first use; initialized/changed using the assignment operator: = c. Example: i. >>> foo = 'Hello world' ii. >>> foo iii. 'Hello world' iv. >>> foo = 'Goodbye' v. >>> foo vi. 'Goodbye'
Variable assignment	
Naming variables	d. Variable names must follow certain rules to make them “legal”. As stated in the textbook, the rules are: i. “It can be only one word.” 1. Meaning that it can`t have any spaces. It can be a phrase if the spaces are removed, ex. ‘currentAccountBalance’ ii. “It can use only letters, numbers, and the underscore (_) character.” iii. “It can’t begin with a number.” iv. “[Also, it] is a Python convention to start your variables with a lowercase letter,” as in the example above.

Summary/Reflection:

Being somewhat proficient in C++ and having a tiny bit of prior experience with Python, I felt like I had little difficulty understanding the concepts presented. However, I plan to practice using the exponentiation and integer-division operators in particular, because they were things that I hadn`t been aware of previously.