

Python on Trinket – Lesson 6

Review

- Conditions
- User input

Discussion

- Mathematical operators
 - o Operators can manipulate values (operands)
 - o Arithmetic operators
 - 0 +, -, *, **, /, %

Addition	+	a + b = 10
Subtraction	-	x - y = -5
Multiplication	*	a * b = 20
Exponent	**	X ³ = 8
Division	/	b / a = 10
Modulus	%	b % a = 2

- o Comparison (relational) operators
 - 0 ==, !=, >, <, >=, <=
- o Assignment operators
 - =, +=, -=, *=, /=
- Lists
 - o A sequence of values, grouped together under a single name
 - o Access values by referencing their position in the list
 - o i.e.
 - names = ["Jacob", "Joanna", "Kathy"]
 - names[1] = "Joanna"



Lesson

Count down (operators)	
import time	10 9
<pre>def count_down(): sec = 10 for count in range(sec): print(sec) sec -= 1 time.sleep(1) return</pre>	8 7 6 5 4 3 2

Practice

- Mad Libs: Create a function which prints out a story, filled in with words provided by the user. Ask your classmates to fill in words to complete the story.

Mad libs (Lists)	
<pre>def mad_libs(words): print("Once upon a time in the land of " + words[0] + ", people became confused. " + "There were so many " + words[1] + ", but not enough " + words[2] + ".") return</pre>	Enter a place: Candy Land Enter a thing(plural): coconuts Enter a thing(plural): beluga whales Once upon a time in the land of Candy
<pre>words = ["", "", ""] categories = ["place", "thing(plural)", "thing(plural)"] for count in range(len(categories)): words[count] = input("Enter a " + categories[count]) mad_libs(words)</pre>	Land, people became confused. There were so many coconuts, but not enough beluga whales.