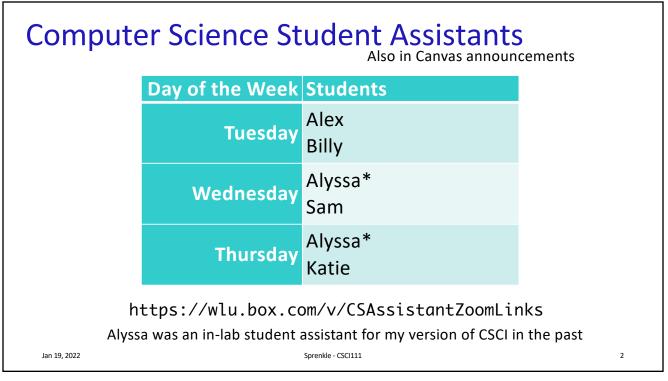
Objectives			
<ul> <li>Assignments an</li> <li>Software developments</li> </ul>			
<ul> <li>Testing</li> <li>Debugging</li> <li>Iteration</li> </ul>			
		Handouts on Canvas	
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## Review

- What are the two modes for running Python programs?
- How do we tell our program to display output?
- How can we store information?
  - > What is the syntax to do that?
- What are the rules and conventions for variable names?
  - > What is another term for "variable names"?
  - > Describe characteristics of *good* variable names
- What are the primitive types of information in Python?
- What are the arithmetic operators? Describe their syntax and semantics.

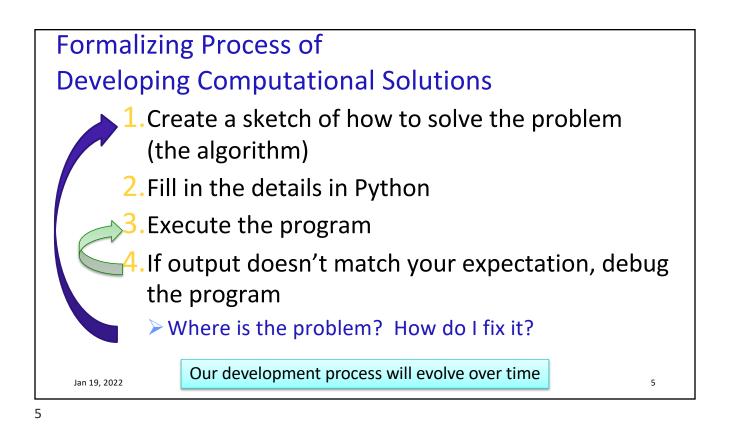
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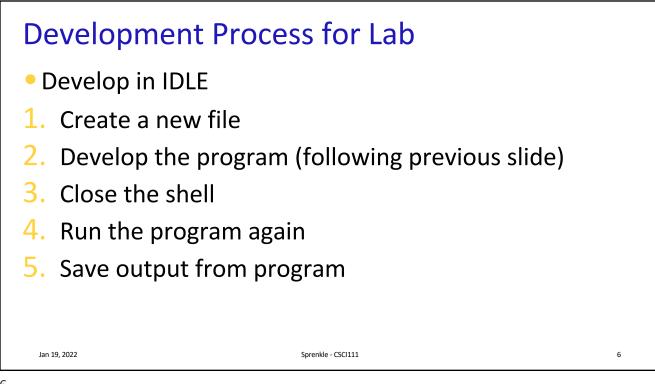
- What is our development process?
   > Generally and for the lab specifically
- What are the expectations for a complete program for this class?

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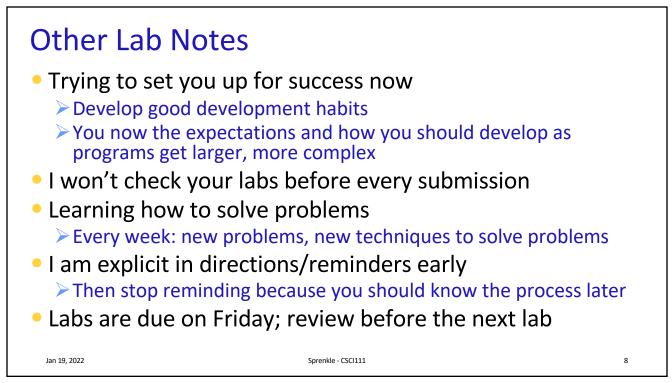
3

Printing Multiple Things ● print is a special command or a function • To display multiple things on the same line, separate them with commas > print("Hello,", "class") > print("x =", 5) > print(x\*y, "is the magic number") > print(r, s, t) Syntax:, Semantics: display this too, separated by a space in the display

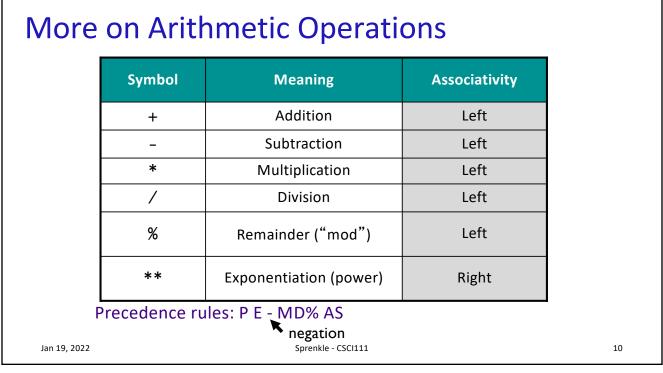


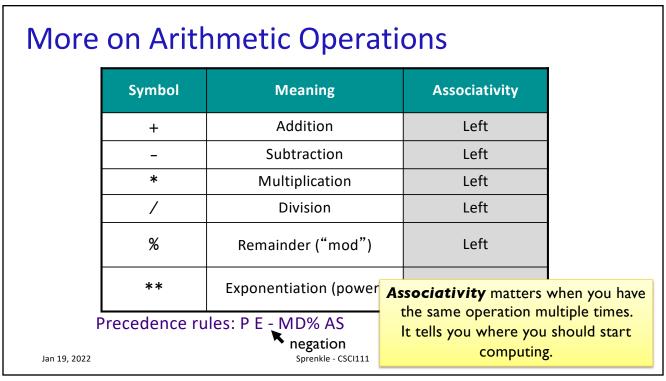


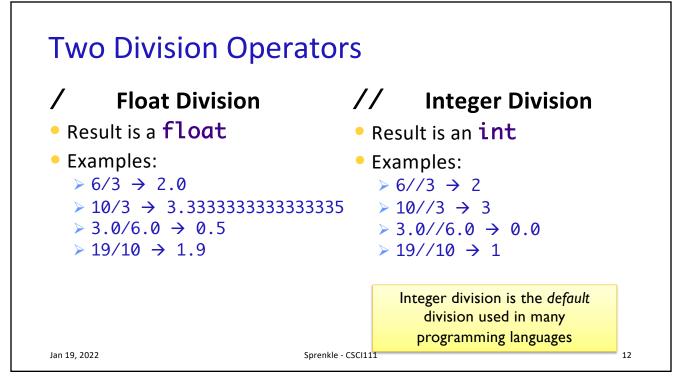
Review: Lab I	Expectations	
	6	le output
,	your program needs to <b>understand</b>	•
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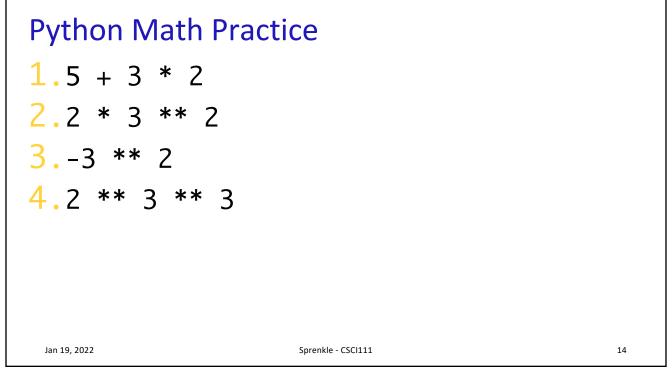
Parts of an Algori	thm	
<ul> <li>Input, Output</li> </ul>		
<ul> <li>Primitive operations</li> <li>What data you have, what y</li> </ul>	you can do to the data	
Naming		
Identify things we're using		
<ul> <li>Sequence of operations</li> </ul>		
<ul> <li>Conditionals</li> </ul>		
Handle special cases		
<ul> <li>Repetition/Loops</li> </ul>		
<ul> <li>Subroutines</li> </ul>		
Call, reuse similar technique	'S	
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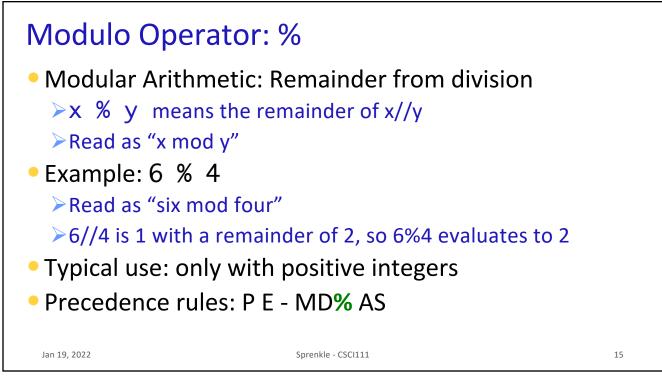


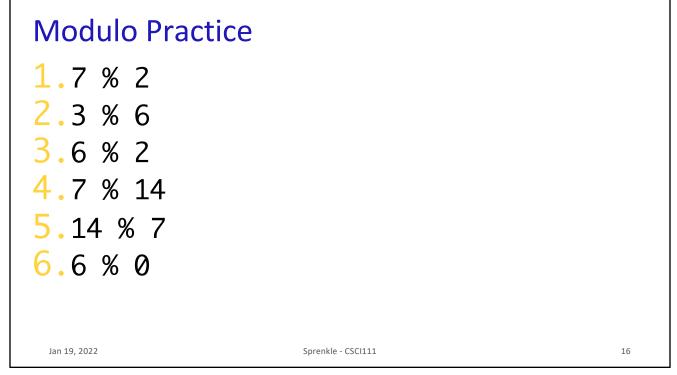


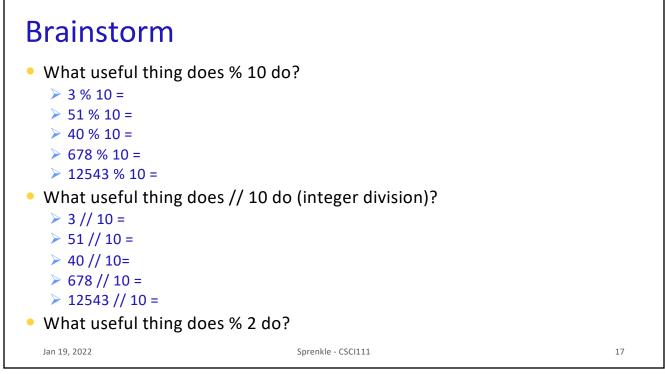


Python Division Practice 1. 6.0//12 \* 5.02. 12 // 4 \* 5.23. a = 12//54. b = 6/125. z = a / bShowing a mix of expressions (just expression and within assignment statements; integers and floats) y = 19.202 Sprenkle - CCLLL











## **Trick: Type Conversion** You can convert a variable's type >Use the type's *constructor* Value **Conversion Function/Constructor** Example Returned int(3.77) 3 int(<number or string>) int("33") 33 float(<number or string>) float(22) 22.0 str(<any value>) str(99) "99" Jan 19, 2022 Sprenkle - CSCI111 18