

Name _____

Partners: _____

Python Activity 1: Introduction to Python

Learning Objectives

Students will be able to:

Content:

- Explain how to display data in Python
- Explain how to create a comment in Python
- Determine the difference between a *string literal* and a *number*

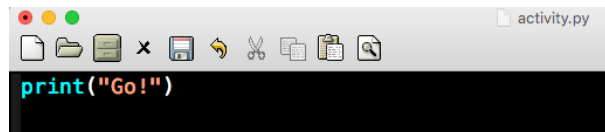
Process:

- Create **print** statements in Python
- Create *Python* code that displays results to calculated addition facts
- Discuss problems and programs with all group members

Prior Knowledge

- Be able to input and execute Python code using Atom and python3

Critical Thinking Questions:



1. What might the above program do?

FYI: A "string literal" is a sequence of characters surrounded by quotation marks (" " or ' ').

2. What output will be produced from the following statements? Indicate if there is a problem.

a. `print("Hello, my name is Pat!")` _____

b. `print(Hello, my name is Pat)` _____

c. `print("Hello.\nMy name is Pat")` _____

3. What caused the different output format for samples "a" and "c" in question 2?

4. What do you think the following Python statements output? Enter the statements in the interactive mode of the Python interpreter (as a class) to verify your answers.

a. `print(2+5)` _____

b. `print(2*5)` _____

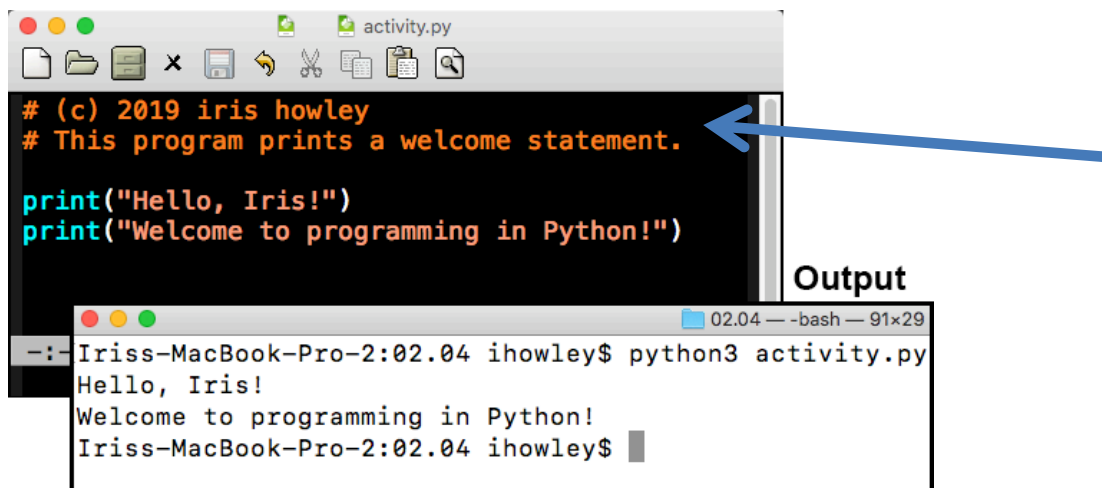
c. `print("2+5")` _____

d. `print("Age:", 20)` _____

5. Examine the output for each statement in question 4.
- What is the difference in the output for the statements in “a” and “c” of question 4?

 - What caused the difference? _____
 - Which statements contain a *string literal*? _____
 - What does the comma (,) do in the print statement in part “d” of question 4? How does it affect the spacing of the output? _____

6. Examine the following code and its output. What do the first two lines of the program do?



The image shows a screenshot of a code editor window titled 'activity.py' and a terminal window. The code editor contains the following Python code:

```
# (c) 2019 iris howley
# This program prints a welcome statement.

print("Hello, Iris!")
print("Welcome to programming in Python!")
```

A blue arrow points from the second comment line to the terminal output. The terminal window shows the command `python3 activity.py` being executed, resulting in the following output:

```
Iriss-MacBook-Pro-2:02.04 ihowley$ python3 activity.py
Hello, Iris!
Welcome to programming in Python!
Iriss-MacBook-Pro-2:02.04 ihowley$
```

7. What would happen if you placed a “#” in front of the code:
- ```
print("Hello, Iris!")
```
- \_\_\_\_\_

**Application Questions: Use the Python program mode to design and check your work**

1. Create a Python program containing two statements that prints the output to the right. *Have the program calculate the answers to the two arithmetic problems.*

```
>>> =====
>>>
34 + 123 = 157
56 * 97 = 5432
>>>
```

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