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 VS Code and python3

Critical Thinking Questions:

Program:

```
 pogil01_intro.py
1    print("Go!")
2
```

Program's Output:

```
pogil — -zsh — 48x19
ihowley@ihYeti pogil % python3 pogil01_intro.py
Go!
```

1. What does the above program do?

   _____

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

2. Examine the following code and predict what will be output. Indicate if you think 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 to verify your answers (as a class).

   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.

a. What is the difference in the output for the statements in (a) and (c) of question 4?

_____

b. What caused the difference? _____

c. Which statements contain a *string literal*? _____

d. 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?

_____

| *Program:* | *Program's Output:* |

```
pogil01_intro.py
1    # This program prints a welcome statement
2
3    print("Hello, Iris!")
4    print("Welcome to programming in Python!")
5
```

```
pogil — -zsh — 49x19
Hello, Iris!
Welcome to programming in Python!
```

7. What would happen if you placed a "#" in front of the code: `print("Hello, Iris!")` in the previous program?

_____

Application Questions: Use the Python script 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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