MEET Y1 - Module 3 - Lab 3

Input/Output + Challenge Qs

INPUT/OUTPUT

Open a new program file and name it `InputOutput.py`

Copy this code exactly as written below:

```
print("How old are you?")
age = input()
```

Save your file, and run the program from IDLE3 by typing F5. The output should look like this:

```
How old are you?
```

Type in the answer to the question and then press Enter.

b. Go back to the `InputOutput.py` file. Add a line of code below what you already wrote, exactly as written below:

```
print("Wow, you're " + age + " years old!")
```

Run the program again.

What is the Input?:   _____

What is the Output?: _____

c. Into the same file, copy the code below:

Before you run the code, compare it to what you wrote in parts a and b.
What is different about `input` in part c? _____
Do you think the code will run the same or differently?

_____

```
age = input("How old are you? ")
print("Wow, you're " + age + " years old!")
```

PARTNERS!

Find your partner and get ready for some challenges.

Hard:

Some songs repeat phrases over and over again. Let's play around with strings using songs. Make a new program called `RepeatSongs.py.`

Type the text from parts of two songs below into the file:

```
print("Row" + " your boat")
print("Gently down the stream.")
print("Merrily")
print("Life is but a dream.")

print()
print()

print("And I was like")
print("Baby")
print("oooooooh!")
print("Baby")
print("nooooooo!")
```

Now run your program. The songs are almost right, but they are missing some repetition (for example, "Row Row Row" your boat). Without adding new lines of code and without adding letters to the strings (spaces are okay!), make the code print the songs correctly to the screen, with the right (repeated) lyrics.

Harder:

Begin a new file called `Ages.py`.

Write the code so that it asks for one person to input their age, asks another person to input their age, and then prints to the screen the sum of the ages.

Add comments above each line of code explaining what it does.

(Hint: If you aren't sure where to start, look back at `InputOutput.py`. How will you get input? Where will you put it? How will you add ages? How do you output that to the screen?)

Extra challenges

- Ask for the input in a different way each time. (Look at `InputOutput.py` for inspiration)

- Print whether the ages are the same. (Not sure how? Look back at yesterday's lab!)

Hardest:

The following code is BROKEN. By that, we mean it is WRONG. And BAD.

Can you find out what is wrong with it? Circle everything that is wrong with this code. Type it into a new program called `Badbadbadcode.py` and try to run it. Keep fixing errors until the code runs properly.

```
# This code is incorrect!  Fix it and make it better!
student = input, "What is your name?"
print(student + 'can't wait to start writing harder
programs!')


instructor = input(Who is your favorite instructor?)
print("Your favorite instructor is" instructor 'and
she is AWESOME.")


team = input(), "Which team are you on?"
print("team is the best team in all of MEET")
```