**Week 1: Introduction to Computational Thinking & Python**

**Practice Problems**

1. Which of the following is *not* part of computational thinking? — D (Memorization)
2. What does print("Hello, world!") output? — Hello, world!
3. Write a program that prints your name and favorite hobby.

**Assignments**

1. Write a Python program that prints your name, your school, and your favorite subject.
2. print("Name: Emily")
3. print("School: Central High")
4. print("Favorite subject: Math")
5. Break the problem of making a sandwich into four computational steps. Write them as comments in Python.
6. # 1. Get ingredients
7. # 2. Assemble sandwich
8. # 3. Cut sandwich
9. # 4. Serve sandwich
10. Write a program that prints your name 3 times.
11. print("Emily")
12. print("Emily")
13. print("Emily")

**Week 1: Introduction to Computational Thinking & Python**

**Project**: *Welcome Message Generator*

**Description**: Write a simple Python program that prints a custom welcome message and demonstrates basic output syntax.

**Example Solution**:

print("Welcome to Computational Thinking with Python!")

print("Let's start our coding journey together.")

**Week 1 Sample Projects and Solutions**

**Project 1: Print Your Introduction**

**Description:**  
Write a Python program that prints your name and your favorite hobby or interest.

**Goal:**  
Practice using print() and get comfortable running a Python script.

**Example Solution:**

print("Hello! My name is Alex.")

print("My favorite hobby is playing guitar.")

**Project 2: Simple Greeting**

**Description:**  
Write a program that prints a greeting message welcoming users to the course.

**Goal:**  
Learn basic string handling and output.

**Example Solution:**

print("Welcome to the Computational Thinking course!")

print("We're going to learn Python programming together.")

**Project 3: Basic Arithmetic Output**

**Description:**  
Write a program that prints the result of some basic math operations, like addition, subtraction, multiplication, and division.

**Goal:**  
Introduce expressions and running Python code.

**Example Solution:**

print("Addition: 3 + 4 =", 3 + 4)

print("Subtraction: 10 - 2 =", 10 - 2)

print("Multiplication: 5 \* 6 =", 5 \* 6)

print("Division: 8 / 2 =", 8 / 2)

**Bonus: Running Your Code**

**Instructions:**

* Save your code in a file named week1\_project.py
* Run it in your Python environment or terminal using:
* python week1\_project.py