Assignment: Introduction to OOP in Python

Objective: The goal of this assignment is to practice the foundational concepts of Object-Oriented Programming (OOP) learned in Class 1 by creating and working with Python classes and objects.

Task 1: Create Your First Class

- 1. Create a class named Person with the following attributes:
 - o name (string): The name of the person.
 - o age (integer): The age of the person.
- 2. Add the following methods to the class:
 - __init__: Initializes the name and age attributes when a Person object is created.
 - o greet: Prints a greeting message in the format: "Hello, my name is <name> and I am <age> years old."
- 3. Create at least two objects of the Person class and call the greet method for each object.

Task 2: Modify Attributes

- 1. Add a method birthday to the Person class that:
 - o Increases the age of the person by 1.
 - Prints a message: "Happy Birthday <name>! You are now <age> years old."
- 2. Demonstrate the birthday method by calling it on one of the Person objects created earlier.

Task 3: Practice with Multiple Methods

- Add a new attribute hobby (string) to the Person class and modify the __init__
 method to accept it.
- 2. Add a method share_hobby that:
 - Prints a message: "Hi, I am <name> and I love <hobby>."
- 3. Create a new Person object with a hobby and call the share_hobby method.

Submission Guidelines

- Save your Python script file named Class1_00P_Assignment_<YourName>.py.
- Submit your assignment by screenshots.
- Make sure to show both the inputs and outputs.
- Include comments in your code to explain each method and attribute.

Bonus Task: Create a class Animal with attributes like species and sound. Add a method make_sound that prints the sound the animal makes. Create objects for different animals and call their make_sound methods.