Hello, Python: Your First Step into Programming

Beginner-Level Project: "My First Python Script"

Objective:

To help students practice Python basics by creating a short script that introduces user interaction, comments, and simple input/output.

Project Name: "Hello, Python!"

Project Description:

Students will write a simple Python program that:

1. Greets the user.
2. Asks for their name and displays a personalized greeting.
3. Uses comments to explain each step.

Project Steps:

1. **Set Up the Environment:**
   - Install Python and verify the installation by running the Python interpreter.
   - Open any Python IDE or text editor to start writing the script.
2. **Write the Script:**
   - Create a Python script file named `hello_python.py`.
   - Follow these steps in the script:

Step 1: Display a welcome message.
Step 2: Use comments to explain each part of the script.
Step 3: Ask the user for their name using the `input()` function.

Step 4: Print a personalized greeting, such as:

Hello, [Name]! Welcome to Python programming.

3.

Code Example:

```
 # Display a welcome message (single-line comment)
print("Welcome to Python Programming!")

# Ask the user for their name
name = input("What's your name? ")

# Display a personalized greeting
print(f"Hello, {name}! Welcome to Python programming.")
```

4.

Task Assignment:

1. **Part 1: Install Python**
    - Ensure Python is installed on your system.
    - Verify by running a simple script that prints "Python is ready!"
2. **Part 2: Create Your Script**
    - Write the `hello_python.py` script as described above.
    - Use at least one single-line comment in your code.
3. **Part 3: Run Your Script**
    - Run the script and ensure it prints the personalized greeting correctly.

Submission Guidelines:

- Submit your Python script file (`hello_python.py`).
- Include a screenshot of your terminal showing the script output.

Assessment Criteria:

1. **Correctness:** The program runs without errors and displays the correct output.
2. **Code Quality:** The script includes proper comments and is easy to read.

Practical Programming Tasks

1. Write a Python script that:
    - Asks the user for their name and age.
    - Prints a greeting and tells them their age next year.
2. Write a program to ask the user for two numbers, add them, and display the result.

Fix the indentation error in the following code:

```
 x = 10
if x > 5:
print("x is greater than 5")
```

3.
4. Write a Python script that takes a sentence as input and prints it twice on the same line, separated by a `*`.

This simplified version of the project focuses on core concepts without overwhelming beginners, making it a quick and easy task.