# **Assignment 2**

### 1. Question 1:

Create a variable age and assign it the value 25. Then print the value of age along with its data type using the type() function.

# 2. Question 2:

Assign the number 12.5 to a variable price. Print both the variable and its data type. Then assign the value 12 to the same variable and print its data type again. What do you observe?

### 3. Question 3:

Create a variable <u>is\_raining</u> and set it to <u>True</u>. Print the value of the variable along with its type. Then set <u>is\_raining</u> to <u>False</u> and print the new value and type.

## 4. Question 4:

Create a variable my\_name and store your full name in it as a string. Then print the value of my\_name using single quotes .

#### 5. Question 5:

Write a Python program that asks the user for their name and age using the <a href="input">input()</a> function. Store the inputs in variables and print a sentence like "Hello, [Name]! You are [Age] years old." Ensure you cast the age to an integer.

## 6. Question 6:

Create two variables  $\times$  and y and assign them the values 10 and 3.5, respectively. Print their values and types. Then, create a new variable sum\_xy and store the sum of  $\times$  and y. Print the result and its type.

#### 7. **Question 7**:

Using the type() function, check and print the data type of the following:

- 45.0
- "hello"
- None

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• False

# 8. Question 8:

Write a Python program to print three strings "apple", "banana", and "cherry" on the same line, separated by a space. Then modify the program to separate the strings using a comma, instead of a space.

## 9. Question 9:

Create a variable <a href="big\_number">big\_number</a> and assign it a very large integer value (e.g., 987654321987654321). Print the value and its type. What do you notice about the size of the number?

# 10. **Question 10**:

Write a Python program that prints the result of multiplying two floats (e.g., and 3.7). Then check and print the data type of the result.

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