**Question 1: Variable Declaration**

**Declare a variable named days\_in\_week and assign it the number of days in a week. Print the variable.**

Hint: Remember, a week typically consists of 7 days.

**Question 2: Arithmetic Operations**

**Given two variables a = 15 and b = 4, calculate and print their sum, difference, product, and quotient.**

Hint: Use standard arithmetic operators (+, -, \*, /) for these operations.

**Question 3: Type Conversion**

**Convert the string "123" to an integer and assign it to a variable named number. Print the type of number to confirm the conversion.**

Hint: Use the built-in function **int()** for converting a string to an integer.

**Question 4: String Concatenation**

**Concatenate the following two strings: first\_name and last\_name into a full name and print the result. Assume the variables have already been defined.**

Hint: Use the **+** operator or the **format()** method to concatenate strings.

**Question 5: Updating Variables**

**Start with the variable score = 0. Add 5 to score, then multiply score by 3, and subtract 2. Print the final score.**

Hint: You can update a variable using operations like **+=**, **\*=**, and **-=**.

**Question 6: Boolean Variables**

**Create a boolean variable is\_sunny to represent if the weather is sunny or not. Set it to True if it is sunny and False otherwise. Print the variable.**

Hint: Boolean values in Python are **True** and **False**.

**Question 7: Variable Names**

**Which of the following is an invalid variable name in Python? Why?**

* a) **python3**
* b) **3\_python**
* c) **\_user\_name**
* d) **user-name**

Hint: Recall the rules for naming variables in Python, particularly regarding numbers and special characters.

**Question 8: Swapping Values**

**Swap the values of two variables x and y. If initially x = 10 and y = 5, ensure x becomes 5 and y becomes 10. Print the swapped values.**

Hint: Consider using a temporary variable or the tuple unpacking feature in Python.

**Question 9: User Input**

**Write a program that asks the user for their name and their age. Print a message greeting them and mentioning how old they are.**

Hint: Use the **input()** function to get user input and remember to convert the age input to an integer.

**Question 10: Dynamic Typing**

**Create a variable data and assign it an integer value. Then, reassign data to a string. Print the type of data before and after the reassignment.**

Hint: Use the **type()** function to check the variable type at each step.