**📝 Day 2 – Home Assignments: Variables, Data Types & Type Conversion**

**🔹 Part A: Working with Variables**

1. Create variables to store:
   * Your name
   * Your age
   * Your height in centimeters
   * A boolean indicating whether you are a student

Then print all values.

1. Create a variable x = 10 and y = 5. Print the following:
   * Sum
   * Difference
   * Product
   * Quotient

**🔹 Part B: Type Conversion**

1. Take two numbers as input from the user and:
   * Convert them to integers
   * Add them and print the result

Example:

Enter first number: 10

Enter second number: 20

Output: The sum is 30

1. Take a float input (like 98.6) and convert it to:
   * An integer
   * A string  
     Print all three formats.

**🔹 Part C: Type Checking**

1. Declare the following:

name = "Amit"

age = 20

height = 175.5

is\_student = True

Print the type of each variable using type() function.

**🔹 Part D: Real-Life Scenario**

1. Create a small bill calculator:
   * Input: item name, quantity, price per item
   * Output: total cost = quantity × price  
     Example:

Enter item: Pen

Enter quantity: 3

Enter price per item: 15

Output: Total cost for 3 Pens is ₹45

1. Ask the user to enter their name and age. Print how many years are left until they turn 100.  
   Example:

Enter your name: Anjali

Enter your age: 25

Output: Hello Anjali, you will turn 100 in 75 years!