# In Class Excercise 4

# Assignment 1: Guessing Game

## Objective

Practice using loops, conditional statements, user input, and the Random class in Java.

### Description

Write a program that plays a number guessing game between the computer and the user.

- The computer will randomly select a secret number between 1 and 100 (inclusive)
- The user will try to guess the number
- After each guess, the program will tell the user whether the guess was:
  - o Too high
  - Too low
  - o Correct!
- The game should keep looping until the user correctly guesses the number

#### **Expected Output (example)**

```
Welcome to the Guessing Game!
I'm thinking of a number between 1 and 100.
Enter your guess: 50
Too low! Try again.
Enter your guess: 75
Too high! Try again.
Enter your guess: 63
You got it!
```

# Assignment 2: Shopping Cart

#### Objective

Practice using for loops, user input, and calculations in Java.

#### Description

Write a program that calculates the total cost of items in a shopping cart.

#### **Expected Output:**

PROFESSEUR: M.DA ROS

```
How many items are you purchasing? 3
Price of item 1? 1.5
Price of item 2? 3.1
```

# Requirements

PROFESSEUR: M.DA ROS

Assignment 1 (Guessing Game) Required Components:

- 1. Use a do...while loop to repeat the guessing process
- 2. Use a Random object to generate the secret number
- 3. Use Scanner to get user input
- 4. Provide feedback after each guess (Too high, Too low, or Correct!)
- 5. Count attempts and display the total when the user wins

### Assignment 2 (Shopping Cart) Required Components:

- 1. Use a for loop to iterate through items
- 2. Use Scanner to get user input (number of items and prices)
- 3. **Use double** data type for prices (decimal numbers)
- 4. Calculate total by adding all item prices
- 5. Display formatted output with item count and total cost