Dart Compound Coding Exercises (Basics – Non-OOP)

Q1: Student Grades Analyzer

- Calculate the average grade from this list: [55, 72, 90, 45, 68, 100, 88, 73, 49].
- Create a new list with only grades above 80.

Q2: Grocery Price Calculator

- From this map: {"apple": 5, "banana": 3, "orange": 4, "mango": 10} add "grape": 7 and update "banana" to 4.
- Given a shopping list ["apple", "apple", "mango"], calculate the total cost.

Q3: Number Series Challenge

- Print numbers between 1 and 50 that are divisible by 7.
- Find the first number greater than 40 that is divisible by 5.

Q4: Word Counter

- Given "Dart is fun and Dart is powerful", count how many times each word appears.
- Print the most frequent word.

Q5: ATM Simulation

- Start with balance 1000, then deposit 500 and withdraw 300.
- Print the final balance.

Q6: Prime Numbers Finder

- Write a function isPrime(int n) that checks if a number is prime.
- Use it to print all prime numbers between 1 and 50.

Q7: Temperature Converter

- Convert this list of Celsius temps [0, 20, 37, 100] to Fahrenheit.
- Print only the converted values above 90°F.

Q8: Lottery Number Checker

- Generate a random list of 6 numbers between 1–50.
- Compare it with a ticket [5, 10, 15, 20, 25, 30] and print how many match.