

Dart Coding Exercises (OOP + Problem Solving) – Fresh Set

Q1 Create a class City with attributes name and population. In main(), create two city objects and print their details.

Q2 Create a class Temperature with an attribute celsius. Add a method toFahrenheit() that returns the temperature in Fahrenheit. In main(), create an object and print the converted value.

Q3 Create a class Movie with attributes title and rating. In main(), create a list of 4 movies. Print only the movies with a rating above 7.

Q4 Create a class Employee with attributes name and salary. Add a method giveRaise(int amount) that increases the salary. In main(), create an employee, give them a raise, and print the new salary.

Q5 Create a class Course with attributes title and duration (default = 3 months). Create two courses: one with custom duration and one with the default. Print both.

Q6 Create a class NumberCheck with an attribute value. Add a method isEven() that returns true if the number is even, false otherwise. In main(), test the method with one number.

Q7 Ask the user for a number (e.g., 9875). Keep summing its digits until the result is a single digit. Print the final single-digit result. (Example: $9+8+7+5 = 29 \rightarrow 2+9 = 11 \rightarrow 1+1 = 2$)

Q8 Ask the user to input a sentence. Print all the words that appear only once in the sentence. Also print the total count of unique words.