Dart Compound Coding Exercises — Practice Sheet

10 Coding Exercises

Exercise 1:

1. a) Create a Dart file with a main function.

b) Inside main, print your name and your age on two separate lines.

c) Print a single string that contains both name and age using string interpolation.

Exercise 2:

2. a) Declare variables: String country, int year, double weight, bool likesCoding. Assign values.

b) Print a sentence that includes all values using string interpolation.

c) Change weight to a different value and print only the updated one.

Exercise 3:

3. a) Create String phrase = 'Learning Dart'.

b) Print phrase.length, phrase.toLowerCase(), and phrase.contains('Dart').

c) Trim spaces from String test = ' Dart ' and print the result.

Exercise 4:

4. a) Declare int x and double y with any values.

b) Create num result = x + y; print it and also result.toDouble().

c) Print results of x - 1, y * 3, and x / 2.

Exercise 5:

5. a) Declare two integers a and b.

b) Print outcomes of comparison operators: a == b, a != b, a > b, a < b, a >= b, a <= b.

c) Declare int sum = a + b; check if sum equals 20 and print the boolean result.

Exercise 6:

6. a) Create List animals with three values.

b) Add a new animal, remove the last one, and update the second element.

c) Print animals.first, animals.last, and animals.length.

Exercise 7:

7. a) Start with List numbers = [4, 4, 5, 6, 6, 7].

b) Convert it to a Set to remove duplicates and print it.

c) Use add(), remove(), and contains() with the set, printing each result.

Exercise 8:

8. a) Create a Map book = {'title': 'Dart Guide', 'pages': 120, 'price': 19.99}.

b) Print book['title'], update price, and add a new key 'author'.

c) Print all keys, values, and check if 'pages' exists as a key.

Exercise 9:

9. a) Create List> students with two items, each having name and grade.

b) Print the grade of the second student using index and key.

c) Add both grades and print the average grade as double.

Exercise 10:

10. a) Demonstrate var vs dynamic: assign dynamic value first as an int, then as a String, printing after each.

b) Create var greeting = 'Hi'; change it to another String and print.

c) Declare num pi = 3.14159; print pi.toInt() and pi.toStringAsFixed(3).