

# Dart Basics Practice Problems

## Loops (For / While)

1. Print 1 to 10 using a for loop.
2. Print even numbers between 1 and 20 using a while loop.
3. Print the multiplication table of 5 using a for loop.
4. Calculate the sum of numbers from 1 to 100 using a while loop.
5. Print factorial of a number using a for loop (e.g.,  $5! = 120$ ).

## If / Else

6. Check if a number is positive, negative, or zero.
7. Check if a number is even or odd.
8. Find the largest of three numbers using if-else.
9. Check if a person is eligible to vote (age  $\geq 18$ ).
10. Check if a given year is a leap year.

## Switch

11. Create a simple calculator using switch (+, -, \*, /).
12. Check the day of the week using a number input (1 = Monday, ... 7 = Sunday).
13. Assign grades using switch (A, B, C, D, F).

## List / Array

14. Create a list of 5 numbers and print each number using a loop.
15. Find the sum of all elements in a list.
16. Find the largest number in a list.
17. Reverse a list and print it.
18. Count how many even numbers are in a list.

## Variables & Types

19. Declare and print variables of types: int, double, String, bool, var, and dynamic.

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20. Write a program that asks the user's name and age, and prints: Hello John, you are 25 years old.