# Week 1 (Foundations of Dart)

## Dart Programming Bootcamp — Week 1 (Foundations of Dart)

**Week Duration:** Monday to Saturday **Deadline: Saturday, 02, July, 2025** 

## **V** Topics Covered This Week

This week is all about mastering the basics of Dart programming. You are required to go through the following foundational topics:

#### 1. V DartPad Introduction

• Practice code directly at: https://dartpad.dev

#### 2. Variables

• Understanding var, final, const, and type annotations.

#### 3. V Built-in Types

• int , double , String , bool , List , Map , Set .

#### 4. V Functions

Named functions, anonymous functions, arrow syntax, optional parameters.

#### 5. **Operators**

• Arithmetic, relational, logical, assignment, null-aware operators.

#### 6. Control Flow Statements

• if/else , switch , for , while , do-while , break , continue .

## **Learning Resource**

Please complete this **YouTube Playlist** by **Saturday**:

Week 1 (Foundations of Dart)

#### The Net Ninja - Dart Tutorial for Beginners

This playlist will guide you through Dart fundamentals in a clear and beginnerfriendly way.

### Mini Project for Week 1: Dart CLI Quiz App

#### **★** Project Requirements:

- Build a simple Quiz App in Dart (CLI-based using DartPad or local Dart environment).
- Your app should:
  - Ask at least 5 multiple-choice questions
  - Track user's score
  - Use functions for modular code
  - Use Lists/Maps to store questions and answers
  - Use if / else , for / while loops
  - Output final score to user

#### Project Goal:

This project helps you implement everything you've learned — variables, data types, functions, control flow, and basic logic building.

### **77** Submission Guidelines:

- Complete the playlist and the mini project by Saturday, 02, July 2025
- Submit your code via GitHub or paste your DartPad link (Submission Form Will be posted in group).
- Be prepared to demo your project briefly in Sunday's review session.

## **Optional Resources:**

Dart Documentation

Week 1 (Foundations of Dart) 2

- Practice Problems
- Dart Cheatsheet

For any doubts or help, reach out to the mentors or ask in your bootcamp group. Happy coding!

Week 1 (Foundations of Dart) 3