Intro and Setup (Day 01)

Learning Path: Topics Covered

Here is the **day-by-day breakdown** of the challenge:

Basics

- **Day 01 – Intro and Setup:** JavaScript basics, setup environment, VS Code, browser console
- **Day 02 – Variables:** let, const, var, variable naming rules
- **Day 03 – Data Types:** Numbers, Strings, Booleans, Undefined, Null
- **Day 04 – Operators:** Arithmetic, relational, logical, assignment operators
- **Day 05 – Conditional Statements:** if, else, switch, ternary operator
- **Day 06 – Loops:** for, while, do-while loops
- **Day 07 – Functions Basics:** defining, calling, return values
- **Day 08 – Function Parameters & Scope:** local, global, default parameters
- **Day 09 – String Methods:** concatenation, slice, substring, includes, template literals
- **Day 10 – Number & Math Methods:** parseInt, parseFloat, Math.random, Math.round

Arrays & Objects

- **Day 11 – Type Conversion & Coercion**
- **Day 12 – Template Literals**
- **Day 13 – Mini Project: Simple Calculator**
- **Day 14 – Debugging and Comments**
- **Day 15 – Revision and Quiz**
- **Day 16 – Arrays Basics**
- **Day 17 – Array Methods:** push, pop, shift, unshift
- **Day 18 – Array Higher-Order Methods:** map, filter, reduce
- **Day 19 – forEach, find, some, every**
- **Day 20 – Objects Basics:** key-value pairs, accessing, modifying
- **Day 21 – Object Methods & this**
- **Day 22 – Nested Objects**
- **Day 23 – Destructuring**
- **Day 24 – Spread & Rest Operators**
- **Day 25 – Mini Project: Student Record Manager**

Functions, Callbacks, and DOM

- **Day 26 – Callback Functions**
- **Day 27 – Arrow Functions**
- **Day 28 – DOM Introduction**
- **Day 29 – DOM Selectors**
- **Day 30 – DOM Manipulation**
- **Day 31 – Events & Listeners**
- **Day 32 – Event Object & Delegation**

- **Day 33 – Form Validation**
- **Day 34 – LocalStorage & SessionStorage**
- **Day 35 – JSON & Parsing**
- **Day 36 – Date & Time**
- **Day 37 – setTimeout & setInterval**
- **Day 38 – ES6 Modules**
- **Day 39 – Error Handling**
- **Day 40 – Mini Project: ToDo App**

Advanced Concepts & Projects

- **Day 41 – Hoisting & Closures**
- **Day 42 – Lexical Scope**
- **Day 43 – Prototypes & Inheritance**
- **Day 44 – Constructor Functions & Classes**
- **Day 45 – this in Different Contexts**
- **Day 46 – Call, Apply & Bind**
- **Day 47 – Promises Basics**
- **Day 48 – Async/Await**
- **Day 49 – Fetch API**
- **Day 50 – Mini Project: Weather App**
- **Day 51 – ES6 Features Review**
- **Day 52 – Mini Project: Digital Clock**
- **Day 53 – Mini Project: Quiz App**
- **Day 54 – Mini Project: Notes App**
- **Day 55 – Mini Project: Calculator Advanced**
- **Day 56 – Mini Project: Quote Generator**
- **Day 57 – Mini Project: Currency Converter**
- **Day 58 – Mini Project: Weather Dashboard**
- **Day 59 – Portfolio Webpage**
- **Day 60 – Final Wrap-Up & Journey Post**

How to Use This Repository

1. Clone the repository:

```
git clone https://github.com/username/JavaScript-60Day-Challenges.git
```