# ****JAVA SCRIPT BOOTCAMP ROADMAP****

### ****OUTCOME OF THE BOOTCAMP****

• Write clean & structured JavaScript code  
• Work with APIs using Fetch  
• Handle asynchronous operations  
• Understand OOP in JavaScript  
• Build functional mini-projects

### ****WEEK 1-2: JAVASCRIPT FUNDAMENTALS****

**Goal:** Understand JS basics and writing clean code

**TASKS:**  
• Introduction to JavaScript  
• Variables (let, const, var), Scope (Function Scope, Block Scope, Global Scope)  
• Data Types & Type Conversion  
• Operators  
• Conditional Statements (if-else, switch)  
• Loops (for, while, do-while)

**Week 2:**  
• Functions (Declaration, Arrow Functions)  
• ES6 Features (Template Literals)

**MINI-PROJECTS:**

1. Simple Calculator
2. Number Guessing Game

### ****WEEK 3-4: INTERMEDIATE JAVASCRIPT****

**Goal:** DOM Manipulation, Event Handling, APIs

**TASKS:**  
• Arrays & Advanced Methods (map, filter, reduce, forEach)  
• Objects & Object Methods  
• DOM Manipulation (Selectors, Events, Creating/Removing Elements)  
• Event Listeners & Event Bubbling  
• LocalStorage

**Week 4:**  
• Fetch API (GET Request)  
• Error Handling (try-catch)

**MINI-PROJECTS:**

1. To-Do List App
2. Random Business Name Generator

### ****WEEK 5-6: ADVANCED JAVASCRIPT CONCEPTS****

**Goal:** Deep dive into JS & Asynchronous Programming

**TASKS:**  
• Asynchronous JavaScript (Callbacks, Promises, async/await)  
• ES6 Modules (import/export)

• Object-Oriented Programming (OOP)

• The this keyword

**Week 2:**  
Classes(Inheritence) & Constructor Functions

* Inheritance & super()

**PROJECTS:**

1. Weather App (Using Fetch API)
2. Digital Clock

### ****NEXT STEPS AFTER BOOTCAMP****

• Learn JavaScript for Web Development (Frameworks like React)  
• Explore Node.js & Express.js for backend  
• Start building real-world projects