**🧠 Day 1 – JS Basics: let, const, Datatypes, and Functions**

🎯 **Today’s Goal:** Understand how to store data (variables), what types of data exist (datatypes), and how to write reusable logic (functions).

**✅ 1. Variable Declaration: let vs const vs var**

js

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let name = "Rahul"; // Mutable

const age = 21; // Immutable (can't reassign)

var city = "Mumbai"; // Old-school, avoid in modern JS

**💡 Real-Life Analogy:**

* let: You bought a **T-shirt**. You can change it tomorrow. ✅
* const: You were **born on a date**. That never changes. 🚫
* var: Like wearing 90s bell-bottoms in 2025 — don't. 😬

**✅ 2. JavaScript Datatypes**

| **Type** | **Example** | **Use** |
| --- | --- | --- |
| String | "Hello Mumbai" | Text, names |
| Number | 42, 3.14 | Age, prices |
| Boolean | true, false | Conditions |
| Array | [1, 2, 3] | Lists of items |
| Object | {name: "Ravi", age: 23} | Real-world structured data |
| null | null | Intentionally empty |
| undefined | undefined | Not assigned |

js

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const student = {

name: "Ayesha",

age: 20,

isCoder: true

};

**✅ 3. Conditional Logic (if/else)**

js

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const temp = 40;

if (temp > 35) {

console.log("Uff! Garmi ka mausam 🥵");

} else {

console.log("Nice and cool 😎");

}

**✅ 4. Functions (Reusable Logic)**

**🧪 Basic Function:**

js

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function greet(name) {

return `Namaste, ${name}! 🙏`;

}

console.log(greet("Ramesh"));

**🧪 Arrow Function (ES6+):**

js

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const greet = (name) => `Hello, ${name} 👋`;

console.log(greet("Neha"));

**🧪 Practice Time (Mini Challenge 1):**

**🔧 Task:**

Write a function canVote that takes a person’s age and returns:

* "Eligible to vote" if 18 or above
* "Not eligible to vote" otherwise

**💡 Hint:**

Use if-else and an arrow function.

**👨‍🍳 Desi Twist Example:**

js

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const getMealMessage = (meal) => {

if (meal === "biryani") return "Spicy treat from Hyderabad 🍛";

else if (meal === "idli") return "South Indian classic 🥥";

else return "Try something new today! 🍽️";

};

console.log(getMealMessage("idli"));

**🧠 Day 1 Summary Notes:**

| **Concept** | **Shortcut** |
| --- | --- |
| let | Use for values that may change |
| const | Use for fixed values |
| var | Don't use it, legacy |
| if/else | Basic logic structure |
| function | Reusable block of code |
| => | Arrow function syntax (ES6) |

**🏁 What You Should Practice Today**

1. Create a few variables using let and const
2. Write 2 functions using arrow syntax
3. Write at least one if/else logic with a real-life case
4. Complete **Mini Challenge 1 (Voting Eligibility)** and send it here for review!

**🏆 Want Extra Credit?**

Build a **"What to Eat Today"** app:

* Create a list of 5 desi dishes
* Write a function to pick one randomly and return a foodie message
* Output it using console.log