Week 1 - JavaScript Notes

1. Variables & Data Types

- Use `let`, `const` (not `var`)

- Data types: string, number, boolean, null, undefined, array, object

2. Conditionals & Loops

- if/else

- switch

- for, while, for..of

- Truthy/Falsy logic

3. Functions

- Normal function

- Arrow function: `const fn = () => {}`

- Return values

- Parameters

4. Arrays & Objects

- Array methods: push, pop, shift, unshift

- Looping: forEach, map, filter, reduce

- Object destructuring

5. DOM Manipulation

- `document.getElementById`, `querySelector`

Week 1 - JavaScript Notes

- Creating elements dynamically

- Handling events like click, input

6. fetch & async/await

- `fetch(url)` returns a Promise

- Use `async` functions

- `const data = await response.json()`

7. Projects Summary

- Voting Eligibility Checker

- Top 5 Posts from API

- Desi Weather App with API & dark mode

- Desi To-Do App with modular structure

8. Developer Tips

- Use console.log to debug

- Use template literals

- Keep code modular

- Use proper file structure