1) Project goal (one sentence)

A responsive web page where the user enters two numbers and sees the sum immediately (with validation, accessibility, and a little polish).

2) File / folder structure

```
add-two-numbers/

├-- index.html ← main page (your current file)

├-- css/

| └-- styles.css ← optional extra styles

├-- js/

| └-- app.js ← JavaScript (separate file for organization)

└-- README.md
```

3) Step-by-step tasks (in order)

1. Start with the HTML skeleton

- Use the bootstrap CDN (you already did).
- o Add semantic structure: <main>, <form>, labels, ARIA attributes.

2. Create the UI

- o Two number inputs, type="number", with <label> for each.
- An "Add" button and a "Clear" button.
- An area to show the result and inline validation messages.
- Keep everything inside a centered Bootstrap card/container.

3. Add JavaScript logic

- o Read values from inputs, convert to numbers safely (parseFloat).
- Validate inputs: make sure they're not empty and are valid numbers.
- o Show friendly error text if invalid; otherwise show result.
- Support pressing Enter to submit.
- o Implement Clear button to reset inputs and result.
- Prevent adding when inputs are invalid.

4. UX & accessibility improvements

- Use <label for="..."> and aria-live="polite" on the result so screen readers announce updates.
- Use input mode and step on numeric inputs for mobile friendliness.

Provide focus outlines and keyboard-accessible controls.

5. Polish

- Disable Add button while inputs invalid.
- o Show a small animation or change color for result.
- Format large numbers (optional).
- Add tooltips or helper text.

6. Optional features / extensions

- o Add other operations (subtract, multiply, divide).
- Keep a history list of the last N calculations (use localStorage).
- o Add unit tests for the calculation function (Jest) if you want testing practice.
- Make a small React version as a follow-up project.
- Deploy to GitHub Pages.

Explanation

- .container → centers everything.
- .form-control → styles input boxes.
- .btn and .btn-primary → styles button.
- id="num1", id="num2" → used to get values in JS.

Purpose

id="result" → where the sum will appear.

Summary of what you added

Step What you added

		•
1	HTML file	Basic structure
2	Bootstrap CDN	Styling
3	Input boxes + button User interface	
4	JavaScript	Logic to add numbers
5	Result display	Output area