

1 — Project folder & file

1. Create a folder named simple-calculator.
2. Inside it, create one file: index.html.

2-Generate the HTML boilerplate

3 — What each part does (quick)

- `<link ...bootstrap...>` — brings in Bootstrap styles.
- `.container ... w-50` — centers and limits width of the card.
- Two `<input type="number">` — accept numeric input (id = num1, num2).
- Four `<button>` elements — each calls `calculate(op)` with the chosen operator.
- `#result` — where the output text appears.
- `calculate(op)` function:
 - reads values with `document.getElementById(...).value`
 - `parseFloat()` converts input strings to numbers
 - `isNaN()` checks invalid input
 - switch performs the chosen operation
 - writes text into `#result`

4 — How to run & test (manual)

1. Save index.html.
2. Open index.html in your browser (double-click or right-click → Open with → browser).
3. Test scenarios:
 - Enter 5 and 3, click + → should show Result: 8.
 - Enter decimals like 2.5 and 1.2, click * → works with floats.
 - Leave one input empty, click an operator → shows Result: Enter valid numbers!.
 - Try divide by zero (e.g., 5 and 0, click /) → shows Result: Cannot divide by 0.

5— Basic improvements you could add later (optional)

- Disable buttons if inputs are empty.
- Add a “Clear” button to reset inputs and result.
- Allow pressing Enter to compute (wrap inputs in `<form>` and handle submit).
- Show a history list of operations below (localStorage to persist).
- Add keyboard support (use key listeners for + - * /).