

## 1. Add Two Numbers

**Goal:** Take two number inputs and display their sum.

**Bootstrap Focus:** Simple layout with form controls and a button.

**JS Focus:** DOM manipulation + event handling.

### Steps:

1. Create two `<input type="number">` elements inside a Bootstrap `.form-group` or `.input-group`.
  2. Add a Bootstrap **“Add”** button (`btn btn-primary`) below them.
  3. Write a JS function that reads both input values using `document.getElementById()` and adds them.
  4. Display the result inside a `<p>` or Bootstrap `.alert` div using `innerHTML`.
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## 2. Simple Calculator

**Goal:** Perform `+`, `-`, `*`, `÷` operations with Bootstrap-styled buttons.

**Bootstrap Focus:** Use grid or flexbox to arrange buttons neatly.

**JS Focus:** Evaluate expressions using JS logic.

### Steps:

1. Create a display area (`<input type="text">`) styled with Bootstrap `form-control`.
  2. Use a Bootstrap grid system (e.g., 4 columns per row) to create number and operator buttons.
  3. Add `onclick` listeners to append button values to the display input.
  4. When `=` is clicked, evaluate the string using `eval()` or custom logic and show the result.
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## 3. Cart Program (E-Commerce Mini Project)

**Goal:** Simulate adding and removing items to/from a shopping cart.

**Bootstrap Focus:** Product cards and layout.

**JS Focus:** Arrays, DOM updates, and event listeners.

### Steps:

1. Create product cards using Bootstrap `.card` components with **“Add to Cart”** buttons.
2. In JS, maintain an array for cart items (objects with `name`, `price`, `qty`).
3. When a product is added, push it into the array and update the cart count dynamically.
4. Show cart details (items, total) in a Bootstrap modal or table using DOM manipulation.

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## 4. Registration Form

**Goal:** Create a sign-up form with Bootstrap validation styling.

**Bootstrap Focus:** Form layout, form validation classes.

**JS Focus:** Input validation using conditions and regex.

### Steps:

1. Build the form using Bootstrap form components (form-control, form-group, btn).
2. Add input fields: name, email, password, confirm password.
3. In JS, check if all fields are filled and passwords match.
4. Use regex to validate email format and toggle Bootstrap's is-valid / is-invalid classes accordingly.