React Basic Assignment

Assignment: Build a Simple "Task Manager" App

Task 1: Function vs. Class Components

- 1. Create a functional component `Greeting` that accepts a `name` prop and displays:
 - "Hello, [name]!" if a name is provided
 - "Hello, Guest!" if no name is given
- 2. Create the same `Greeting` component using a class component.

Task 2: Props and Prop Drilling

- 1. Create a parent component `App` that has an array of `tasks`.
- 2. Pass this `tasks` array down to a `TaskList` component using props.
- 3. `TaskList` should render each task using a `Task` component.
- 4. In the `Task` component, display the task name.

Bonus: Instead of passing `tasks` directly to `Task`, pass them through an intermediate component (`TaskList`) to experience prop drilling.

Task 3: Default & Required Props

- 1. Modify the `Greeting` component to have:
 - A default prop for `name` ("Guest")
 - A required prop validation for `name`

Task 4: useState Hook & Handling Events

- 1. Create a `Counter` component with a button to increase the count.
- 2. Use the `useState` hook to manage the `count` state.
- 3. Display the count on the screen.

Task 5: Conditional Rendering

- 1. Modify the `Counter` component to display:
 - "Count is even" when the count is even
 - "Count is odd" when the count is odd

Extra Challenge: Task Manager with State

- 1. Create a Task Manager app where users can:
 - Add a new task (input + button)

- Mark a task as completed
- Delete a task
- 2. Use `useState` to manage the tasks array and their status (completed/not completed).

Submission Instructions:

- Push your code to GitHub or a CodeSandbox link.
- Let me know if you need any help!