**Q1. Build a Weather Application using an API**

* **Objective**: Create a React application that fetches and displays weather data from a public API.
* **Steps**:
  1. Create a Weather component with an input field for the city name.
  2. Use the useState hook to manage the city name and weather data.
  3. Use the useEffect hook to fetch weather data from an API (e.g., OpenWeatherMap) when the city name changes.

**Q2 CRUD Operations**

1. **Product Model Setup**
   * How would you design a Mongoose schema for a Product that includes fields like name, description, price, and image? Include validation for required fields and proper data types.
2. **Create Operation**
   * Write an Express route to handle adding a new product to the database. The route should accept product details including an image file. How would you handle the image upload and store the image path in MongoDB?
3. **Read Operation**
   * Create a React component that fetches and displays all products from the backend. How would you implement pagination for products if there are many items in the database?
4. **Update Operation**
   * Design a React form component for editing product details. How would you pre-populate the form with existing product data and handle the submission to update the product in the database?
5. **Delete Operation**
   * Implement a delete button in your React product listing that sends a request to delete a product from the database. How would you handle confirmation before deletion and update the UI after successful deletion?