

Building Blocks of React JS Assignment Questions

Assignment 1: JSX

Task:

Create a simple React component that renders a paragraph with some text. Use JSX syntax to define the component.

Requirements:

- Use at least two HTML tags within the JSX.
- Include a class or ID attribute in one of the HTML tags.
- Render the component in the root element of your React application.

Assignment 2: Functional Components

Task:

Create a functional component named Greeting that takes a name prop and displays a personalized greeting.

Requirements:

- The component should be a function, not a class.
- Use the props parameter to access the name prop.
- Display a greeting message that includes the provided name.

Assignment 3: Class Components

Task:

Create a class component named Counter that includes a state variable count. Implement a button that increments the count when clicked.

Requirements:

- Initialize the count state to 0.
- Display the current count in the component.
- Implement a button that increments the count when clicked.
- Update the component to use a class-based approach.

Assignment 4: States

Task:

Build a component named `TemperatureConverter` that converts Celsius to Fahrenheit. Use state to manage the temperature input.

Requirements:

- Create state variables for Celsius and Fahrenheit temperatures.
- Include input fields for Celsius and Fahrenheit.
- When the user enters a value in one input field, update the other input field accordingly.

Assignment 5: Props

Task:

Create two components – Parent and Child. Pass a message as a prop from Parent to Child and display it in Child.

Requirements:

- Create a Parent component that includes a message in its state.
- Pass the message as a prop to the Child component.
- Display the message in the Child component.

Assignment 6: Conditional Rendering

Task:

Build a component named `UserStatus` that displays different messages based on whether a user is logged in or not.

Requirements:

- Use state to track the user's login status.
- Display a welcome message if the user is logged in.
- Display a login prompt if the user is not logged in.