

Exercise 1: Basic Component Creation

Goal: Create a simple functional component and render it.

1. Create a new React component named `Greeting.js`.
2. Inside `Greeting.js`, return an `<h1>` tag with the text "Hello, React!".
3. Import and use the `Greeting` component inside `App.js`

Exercise 2: Reusable Button Component

Goal: Learn to reuse components.

1. Create a new component named `Button.js`.
2. Inside `Button.js`, return a `<button>` with some default text like "Click Me".
3. Import and use the `Button` component multiple times inside `App.js`.

Exercise 3: Passing Props to a Component

Goal: Understand how to use props.

1. Modify the `Greeting.js` component to accept a `name` prop.
2. Update the component to display "Hello, {name}!".

Pass different names when rendering `Greeting` inside `App.js`:

```
<Greeting name="Alice" />
```

```
<Greeting name="Bob" />
```

Exercise 4: Card Component with Props

Goal: Learn to pass multiple props.

1. Create a `Card.js` component.
2. The `Card` should receive `title` and `description` as props.
3. Render the `Card` component multiple times in `App.js` with different titles and descriptions.

Example usage:

```
<Card title="React Basics" description="Learn components and props." />  
<Card title="State Management" description="Understand useState and  
useEffect." />
```

Exercise 5: List Rendering with Props

Goal: Pass an array as a prop and render a list.

1. Create a `UserList.js` component.
2. Accept a `users` prop, which is an array of names.
3. Render the list dynamically using `.map()`.
4. Pass a sample array of names from `App.js`.

Example:

```
const users = ["Alice", "Bob", "Charlie"];  
<UserList users={users} />
```

Bonus Challenge: Profile Card Component

Goal: Combine multiple concepts (reusability, props, styling).

1. Create a `ProfileCard.js` component.
2. Accept `name`, `age`, and `profilePicture` as props.
3. Display the information in a styled card.
4. Use multiple `ProfileCard` components in `App.js`.

Example usage:

```
<ProfileCard name="Alice" age={25}  
profilePicture="https://example.com/alice.jpg" />
```