**ReactJs HandsOn-12  
1. Explain about conditional rendering in React**Conditional Rendering means showing different UI elements based on conditions (like if-else in JS).

React uses JavaScript conditions inside JSX.

-> Ways to do Conditional Rendering:

1. if-else statement

function App({ isLoggedIn }) {  
 if (isLoggedIn) {   
return <h1>Welcome Back!</h1>;   
} else {   
return <h1>Please Log In</h1>;   
}   
}

2. Ternary operator (short & common)

{isLoggedIn ? <Dashboard /> : <Login />}

3.  Logical AND (&&) (render only if true)

{isAdmin && <button>Delete</button>}  
  
**2. Define Element Variables**Element variables are JS variables that store React elements.

Useful when you want to decide what to render before the return() statement.

**3. Explain how to prevent components from rendering**Sometimes you don’t want a component to render anything.

Ways to do this:

1. Return null

* The component won’t render anything in the DOM.

function Warning({ show }) {  
 if (!show) {  
 return null; } return <div> Warning!</div>;  
 }

2. Use conditions in parent component

{isLoggedIn && <Profile />}

->If isLoggedIn is false, <Profile /> won’t render.

3. Use Higher Order Components (HOCs)

* Advanced method: wrap components to control rendering.