

THEORY ESSIGNMENT

➤ Conditional Rendering

Question 1: What is conditional rendering in React?

Answer:

Conditional rendering means **showing different UI** (elements or components) based on **some condition** (like login status, age, etc.).

Just like **if statements** in JavaScript, React lets you **conditionally show or hide elements**.

➤ How to conditionally render in React?

You can use:

- if...else
- ternary operator (?)
- logical AND (&&)

➤ Example using if:

```
if (isLoggedIn) {  
  return <h1>Welcome</h1>;  
} else {  
  return <h1>Please log in</h1>;  
}
```

Question 2: How to use if-else, ternary, and && in JSX?

1. if-else (used outside return):

```
let message;  
  
if (isLoggedIn) {  
  message = "Welcome!";  
} else {  
  message = "Please log in.";
```

```
}  
return <h1>{message}</h1>;
```

2. Ternary Operator (inline in JSX):

```
<h1>{isLoggedIn ? "Welcome!" : "Please log in."}</h1>
```

3. Logical AND (&&) — shows something only if condition is true:

```
{isLoggedIn && <h1>Welcome!</h1>}
```

(If isLoggedIn is false, nothing is shown)