### ****Objective Four: Advanced Conditional Rendering & Lists****

* **Various Ways of Conditional Rendering**
  + if-else
  + ternary operator
  + logical &&
  + using functions to return components
* **Render Multiple Components**
  + Use fragments <> ... </> or array of components.

jsx

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return (

<>

<Header />

<Body />

</>

);

* **List Component**  
  A component that renders items using .map():

jsx

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const List = ({items}) => (

<ul>{items.map(item => <li key={item.id}>{item.name}</li>)}</ul>

);

* **Keys in React**  
  Unique identifiers for list elements to help React track changes.

jsx

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items.map(item => <li key={item.id}>{item.name}</li>)

* **Extract Components with Keys**  
  Move each list item to its own component, pass key to the outermost element.

jsx

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const ListItem = ({item}) => <li>{item.name}</li>;

* **React Map & map() Function**  
  Used to render lists from arrays of data.

jsx

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array.map((item) => <Component key={item.id} {...item} />)