**Cognizant Digital Nurture 4.0**  
**Week-7**  
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**React Hands-on Exercise 12**

### 1.Explain about conditional rendering in React

* Conditional rendering in React allows you to render different components or elements based on certain conditions.
* It works similarly to JavaScript conditions using if-else or ternary operators.
* Common methods include:
* if/else statements
* ternary operator
* logical && operator
* switch statements

**Example**:

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

### 2. Define element variables

* Element variables are used to store JSX elements in variables, allowing you to render them conditionally.
* This approach helps in managing multiple conditions cleanly before returning from the render function.

**Example**:

let button;if (isLoggedIn) {

button = <LogoutButton />;

} else {

button = <LoginButton />;

}

return (

<div>{button}</div>

);

### 3.Explain how to prevent components from rendering

* We can prevent a component from rendering by returning null from its render method.
* Returning null tells React to render nothing for that component.
* This is useful for hiding components without unmounting them.

**Example;**

function WarningBanner(props) {

if (!props.warn) {

return null;

}

return <div className="warning">Warning!</div>;

}