**OBJECTIVE**

1. **Explain about conditional rendering in React**

* **Definition:** Conditional rendering in React works the same way conditions work in JavaScript. You can use if, ternary operator, or logical AND (&&) to render components or elements based on certain conditions.
* **Example using if:**

if (isLoggedIn) {

return <p>Welcome, User!</p>;

} else {

return <p>Please log in.</p>;

}

* **Example using ternary (? :) operator:**

<p>{isLoggedIn ? 'Welcome!':'Please log in'}</p>

* **Example using logical AND (&&):**

{isLoggedIn && <p>You have access to this section</p>}

1. **Element Variables in React**

* **Definition**: Element variables are used to store elements or components, which can then be rendered conditionally or reused.
* **Example:**

let message;

if (isLoggedIn) {

message = <h1>Welcome back!</h1>;

} else {

message = <h1>Please sign up.</h1>;

}

return (

<div>

{message}

</div>

);

1. **Preventing Components from Rendering**

* **Definition**: You can prevent a component from rendering by:
* Returning null from its render() method (class)
* Returning null in a functional component
* Using a condition to skip rendering in the parent