WEEK 7

10.REACTJS-HOL

**1. Define JSX**  
JSX (JavaScript XML) is a syntax extension for JavaScript used in React to write HTML-like code within JavaScript.

**2. Explain about ECMA Script**  
ECMAScript is the standardized version of JavaScript defined by ECMA International, with ES6 being a major update introducing many modern features.

**3. Explain React.createElement()**  
React.createElement() is a method used to create a React element (virtual DOM node) without JSX. It takes the element type, props, and children.

**4. Explain how to create React nodes with JSX**  
React nodes can be created using JSX by writing HTML-like tags in JavaScript:

const element = <h1>Hello</h1>;

**5. Define how to render JSX to DOM**  
JSX is rendered to the DOM using ReactDOM.render():

ReactDOM.render(<App />, document.getElementById('root'));

**6. Explain how to use JavaScript expressions in JSX**  
JavaScript expressions can be embedded inside JSX using curly braces {}:

const name = "John";

const element = <h1>Hello, {name}</h1>;

**7. Explain how to use inline CSS in JSX**  
Inline CSS is passed as a **JavaScript object** with camelCase property names:

const style = { color: 'blue', fontSize: '20px' };

const element = <h1 style={style}>Styled Text</h1>;