**Day-18 Morning Assessment**

1. React.js is an open-source JavaScript library for building user interfaces, especially single-page applications with dynamic and fast UI updates. It was developed by Jordan Walke.

2. A React component is a special function or class that returns JSX (UI structure) and follows React’s rules.  
A regular JavaScript function can perform any logic but doesn’t inherently return UI or follow React's rendering rules.  
  
3. JSX (JavaScript XML) is a syntax extension that allows you to write HTML-like code directly inside JavaScript. It makes UI structure more readable and lets you easily embed JavaScript logic inside markup.  
  
4.Functional Component is Simple JS function and it uses hooks like useState. Class Component ES6 class and it uses this.state.

5. It defines what UI the component should render. The return() outputs JSX that React converts into actual DOM elements.  
  
6. You wrap the variable or expression inside curly braces {}:  
const name = "Amitha";  
return <h1>Hello, {name}!</h1>;  
  
7. Props is Data passed from parent to child component while State is Data managed within the component.  
  
8. useState() is a React Hook that lets you add state to functional components. It returns an array with the current state value and a function to update it  
Example:  
const [count, setCount] = useState(0);  
  
9. The key helps React identify which items have changed, been added, or removed, allowing efficient re-rendering and must be unique among siblings.  
  
10. You use event handlers by passing a function reference:  
function handleClick() {  
 alert("Button clicked!");  
}  
  
return <button onClick={handleClick}>Click Me</button>;