## **Objectives**

* Define JSX

JSX stands for JavaScript XML. It is a special syntax that allows writing HTML-like tags within a JavaScript file. The main use of JSX is in React to design UI structures in a more human-readable way.

* Explain about ECMA Script

ECMAScript is the specification standard upon which JavaScript is based. ES6 is the sixth set of specifications, adding modern capabilities to the language.

* Explain React.createElement()

`React.createElement()` is the method by which JSX creates virtual DOM elements internally. It can be called directly to manually create React elements without resorting to JSX.

* Explain how to create React nodes with JSX

React nodes can be created using the JSX syntax. For instance, `<h1>Hello</h1>` creates React nodes that represent an HTML heading element containing the text "Hello."

* Define how to render JSX to DOM

JSX can be rendered to the DOM using `ReactDOM.render()`. For example, `ReactDOM.render(<App />, document.getElementById('root'))` would render the App component inside the DOM node with the ID of `'root'`.

* Explain how to use JavaScript expressions in JSX

JavaScript expressions can be included inside JSX by wrapping them in curly braces `{}`. For instance, `<h1>Hello, {name}</h1>` will render an H1 tag containing "Hello, " followed by whatever string the variable `name` represents.

* Explain how to use inline CSS in JSX

Inline CSS in JSX is done with inline styles expressed as a JavaScript object. For instance:

<h1 style={{ color: 'red', fontSize: '20px' }}>Styled</h1>.



