## **Objectives**

* Define JSX

JavaScript XML, or JSX, is a syntax extension for JavaScript that allows React to write HTML-like code inside of JavaScript. It allows combining HTML and JavaScript logic in a single file and improves the readability of UI creation.

* Explain about ECMA Script

ECMA International defines ECMAScript as the standardized JavaScript specification. With the introduction of more recent features like classes, arrow functions, and modules in ES6 and later versions, it establishes the fundamental characteristics, syntax, and behavior of the language.

* Explain React.createElement()

A fundamental React function called createElement() generates a React element (virtual DOM node) without the need for JSX. It returns a JavaScript object that describes the UI element after receiving as inputs the element type, props, and children.

* Explain how to create React nodes with JSX

React nodes (elements) in JSX are made by directly writing HTML-like tags in JavaScript, such as <h1>Hello</h1>. After that, JSX is compiled to React.Before rendering, createElement() is called in the background.

* Define how to render JSX to DOM

ReactDOM can be used to render JSX to the actual DOM.pass the JSX element to createRoot() using.render() (React 18+).

For instance:

ReactDOM.createRoot(document.getElementById("root")).render(<App />);

* Explain how to use JavaScript expressions in JSX

Curly braces {} can be used to embed JavaScript expressions in JSX. For instance, <p>{user.name}</p> or <h1>{2 + 2}</h1>. The only statements that can be used directly are expressions, not loops or if statements.

* Explain how to use inline CSS in JSX

The style attribute with a JavaScript object is used to apply inline CSS in JSX. Instead of using hyphens in CSS property names, camelCase is used.

For instance:

<h1 style={{ color: "red", fontSize: "20px" }}>Hello</h1>

Create a React Application named “officespacerentalapp” which uses React JSX to create elements, attributes and renders DOM to display the page.

Create an element to display the heading of the page.

Attribute to display the image of the office space

Create an object of office to display the details like Name, Rent and Address.

Create a list of Object and loop through the office space item to display more data.

To apply Css, Display the color of the Rent in Red if it’s below 60000 and in Green if it’s above 60000.

**OUTPUT:**

