**1.React JS - HOL**

1. **Define SPA and its benefits**

A Single-Page Application (SPA) loads a single HTML page and dynamically updates content without refreshing the page.  
Benefits include faster navigation, improved user experience, and reduced server load.

1. **Define React and identify its working.**

React is a JavaScript library for building user interfaces using reusable components.  
It works by updating the virtual DOM and efficiently rendering changes to the real DOM.

**3.** **Identify the Differences Between SPA and MPA**

SPA loads content dynamically on one page, while MPA uses multiple pages for different views.  
 SPA offers speed and fluidity; MPA provides better SEO and simpler architecture.

4. **Explain Pros & Cons of Single-Page Application**

**Pros:** Fast performance, seamless user experience, and reduced server requests.  
**Cons:** Poor SEO, longer initial load time, and complex client-side routing.

5. **Explain About React**

React enables developers to build interactive UIs using components and state management.  
It’s declarative, efficient, and supports building both web and mobile apps.

6. **Define Virtual DOM**

The virtual DOM is a lightweight copy of the real DOM used by React to optimize rendering.  
It updates only the changed elements, improving performance and efficiency.

7. **Explain Features of React**

React features include component-based architecture, virtual DOM, and one-way data binding.  
It also supports JSX syntax and integrates well with other libraries and frameworks.

**App.js code:**

function App() {

  return (

  <h1 align= 'center'>Welcome to First session of React</h1>

  );

}

export default App;

**Browser Output:**

