**Experiment (e): Implementing Iterative Rendering using map() Function in React**

**Aim:**

To demonstrate how to implement **iterative rendering** in React using the **map() function** for dynamically displaying a list of items.

**Procedure:**

1. Create a new React app using:

npx create-react-app react-iterative-rendering

1. Navigate to the project directory:

cd react-iterative-rendering

1. Open src/App.js and define an array of data (e.g., a list of fruits or users).
2. Use the map() function to render the list dynamically inside the component.
3. Start the development server using:

npm start

**Code:**

**src/App.js**

import React from 'react';

import './App.css';

function App() {

const students = [

{ id: 1, name: 'Sai Kiran', course: 'B.Tech CSE' },

{ id: 2, name: 'Bhavana', course: 'B.Tech ECE' },

{ id: 3, name: 'Abbas', course: 'B.Tech IT' },

{ id: 4, name: 'Kiranmayi', course: 'B.Tech MECH' }

];

return (

<div className="App">

<h2>Student List</h2>

<ul>

{students.map((student) => (

<li key={student.id}>

<strong>{student.name}</strong> - {student.course}

</li>

))}

</ul>

</div>

);

}

export default App;

**src/index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(<App />);

**Output:**

* Initially, the web page displays a list of students with their names and courses.
* The items are **iteratively rendered** from the array using the map() function.

**Example Output in Browser:**

Student List

• Sai Kiran - B.Tech CSE

• Bhavana - B.Tech ECE

• Abbas - B.Tech IT

• Kiranmayi - B.Tech MECH