**Exercise 9: Create a React Application named “cricketapp”**

**ES6 Features to Demonstrate:**

* **let and const**: for variable declarations.
* **Arrow Functions**: concise function syntax.
* **Destructuring**: extract array values or object properties.
* **Class & Inheritance**: optional, not directly required here.
* **map()**: to render lists.
* **set() and map (ES6 collections)**: optional unless used in logic.

**Step-by-Step Implementation**

**1. Create App**

npx create-react-app cricketapp

cd cricketapp

npm start

**2. data.js**

// src/data.js

export const players = [

{ name: "Jack", score: 50 },

{ name: "Michael", score: 70 },

{ name: "John", score: 40 },

{ name: "Ann", score: 61 },

{ name: "Elisabeth", score: 61 },

{ name: "Sachin", score: 95 },

{ name: "Dhoni", score: 100 },

{ name: "Virat", score: 84 },

{ name: "Jadeja", score: 64 },

{ name: "Raina", score: 75 },

{ name: "Rohit", score: 80 },

];

export const IndianTeam = ["Sachin1", "Dhoniz", "Virat3", "Rohit4", "Yuvarajs", "Rainab"];

export const T20Players = ["First Player", "Second Player", "Third Player"];

export const RanjiPlayers = ["Fourth Player", "Fifth Player", "Sixth Player"];

**3. ListOfPlayers.js**

// src/ListofPlayers.js

const ListofPlayers = ({ players }) => {

return (

<div>

{players.map((item, index) => (

<div key={index}>

<li>Mr. {item.name} <span>{item.score}</span></li>

</div>

))}

</div>

);

};

export default ListofPlayers;

**4. Scorebelow70.js**

// src/Scorebelow70.js

const Scorebelow70 = ({ players }) => {

const playersBelow70 = players.filter(player => player.score <= 70);

return (

<div>

{playersBelow70.map((item, index) => (

<div key={index}>

<li>Mr. {item.name} <span>{item.score}</span></li>

</div>

))}

</div>

);

};

export default Scorebelow70;

**5. OddPlayers.js**

// src/OddPlayers.js

export function OddPlayers([first, , third, , fifth]) {

return (

<div>

<li>First: {first}</li>

<li>Third: {third}</li>

<li>Fifth: {fifth}</li>

</div>

);

}

**6. EvenPlayers.js**

// src/EvenPlayers.js

export function EvenPlayers([, second, , fourth, , sixth]) {

return (

<div>

<li>Second: {second}</li>

<li>Fourth: {fourth}</li>

<li>Sixth: {sixth}</li>

</div>

);

}

**7. ListofIndianPlayers.js**

// src/ListofIndianPlayers.js

const ListofIndianPlayers = ({ IndianPlayers }) => {

return (

<div>

{IndianPlayers.map((player, index) => (

<div key={index}>

<li>Mr. {player}</li>

</div>

))}

</div>

);

};

export default ListofIndianPlayers;

**8. App.js**

import React from "react";

import { players, IndianTeam, T20Players, RanjiPlayers } from "./data";

import ListofPlayers from "./ListofPlayers";

import ListofIndianPlayers from "./ListofIndianPlayers";

function App() {

const flag = true;

const IndianPlayers = [...T20Players, ...RanjiPlayers];

return (

<div>

{flag ? (

<>

<h1>List of Players</h1>

<ListofPlayers players={players} />

<hr />

<h1>List of Players having Scores Less than 70</h1>

<ListofPlayers players={players.filter(p => p.score < 70)} />

</>

) : (

<>

<h1>Indian Team</h1>

<h2>Odd Players</h2>

<ul>

<li>First: {IndianTeam[0]}</li>

<li>Third: {IndianTeam[2]}</li>

<li>Fifth: {IndianTeam[4]}</li>

</ul>

<h2>Even Players</h2>

<ul>

<li>Second: {IndianTeam[1]}</li>

<li>Fourth: {IndianTeam[3]}</li>

<li>Sixth: {IndianTeam[5]}</li>

</ul>

<hr />

<h2>List of Indian Players Merged</h2>

<ListofIndianPlayers IndianPlayers={IndianPlayers} />

</>

)}

</div>

);

}

export default App;

**Explanation of ES6 Usage**

| **ES6 Feature** | **Where Used** |
| --- | --- |
| let and const | Variable declarations everywhere |
| map() | Rendering list of players |
| arrow functions | Filtering players with score < 70 |
| destructuring | Breaking arrays into variables |
| spread operator | Merging arrays in IndianPlayers |
| if/else | Toggle view in App.js |

**Output (Visual)**

**When flag = true:**

Displays:

* All 11 players.
* Players with score below 70.

**When flag = false:**

Displays:

* Odd/Even team players with destructuring.
* Merged array of T20 and Ranji players.

