Week\_7

React\_9:

**STEP 1: Install Prerequisites**

You need:

* **Node.js & npm**: Install from https://nodejs.org
* **VS Code (Code Editor)**: Install from https://code.visualstudio.com

**STEP 2: Create React App**

Now, create a React app named cricketapp:

npx create-react-app cricketapp

cd cricketapp

npm start

It opens a default React page in your browser at http://localhost:3000

**STEP 3: Create Components**

In **VS Code**, open the folder cricketapp.

Now create a folder for components:

* Right-click src → New Folder → Name it: Components

Inside Components, create 2 files:

* ListofPlayers.js
* IndianPlayers.js

**✅ STEP 4: Add Code in ListofPlayers.js**

import React from 'react';

const ListofPlayers = () => {

const players = [

{ name: "Rohit", score: 85 },

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

{ name: "Hardik", score: 60 },

{ name: "Rahul", score: 45 },

{ name: "Pant", score: 78 },

{ name: "Jadeja", score: 35 },

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

{ name: "Shami", score: 88 },

{ name: "Surya", score: 90 },

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

{ name: "Kuldeep", score: 72 }

];

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

return (

<div>

<h2>All Players</h2>

{players.map((p, i) => (

<div key={i}>{p.name} - {p.score}</div>

))}

<h2>Filtered Players (Score < 70)</h2>

{filteredPlayers.map((p, i) => (

<div key={i}>{p.name} - {p.score}</div>

))}

</div>

);

};

export default ListofPlayers;

**STEP 5: Add Code in IndianPlayers.js**

import React from 'react';

const IndianPlayers = () => {

const T20 = ["Rohit", "Virat", "Hardik", "Gill"];

const Ranji = ["Pujara", "Rahane", "Saha"];

// Merging arrays using spread

const mergedPlayers = [...T20, ...Ranji];

// Destructuring to get odd/even players

const [oddTeam, evenTeam] = [

mergedPlayers.filter((\_, i) => i % 2 === 0),

mergedPlayers.filter((\_, i) => i % 2 !== 0)

];

return (

<div>

<h2>Merged Players</h2>

{mergedPlayers.map((p, i) => <div key={i}>{p}</div>)}

<h3>Odd Team</h3>

{oddTeam.map((p, i) => <div key={i}>{p}</div>)}

<h3>Even Team</h3>

{evenTeam.map((p, i) => <div key={i}>{p}</div>)}

</div>

);

};

export default IndianPlayers;

**STEP 6: Edit App.js**

import React from 'react';

import './App.css';

import ListofPlayers from './Components/ListofPlayers';

import IndianPlayers from './Components/IndianPlayers';

function App() {

const flag = true; // Change to false to show IndianPlayers instead

return (

<div className="App">

{flag ? <ListofPlayers /> : <IndianPlayers />}

</div>

);

}

export default App;

**STEP 7: Run and Check Output**

In the terminal:

npm start

* If flag = true: shows all players and filtered players.
* If flag = false: shows merged team, odd team, and even team.

