WEEK 7

ReactJS-HOL

**CODE :**

**ES6 Classes**

class Player {

constructor(name) {

this.name = name;

}

getName() {

return this.name;

}

}

**ES6 Class Inheritance**

class Cricketer extends Player {

constructor(name, score) {

super(name);

this.score = score;

}

getScore() {

return this.score;

}

}

**Arrow Functions**

const add = (a, b) => a + b;

**Set and Map**

const uniqueScores = new Set([50, 60, 70, 70]); // {50, 60, 70}

const players = new Map();

players.set("Kohli", 85);

players.get("Kohli"); // 85

**Part 2: React App Setup and Coding**

**Create App**

npx create-react-app cricketapp

cd cricketapp

npm start

**Component 1: ListofPlayers.jsx**

// src/components/ListofPlayers.jsx

import React from 'react';

const ListofPlayers = () => {

const players = [

{ name: 'Virat', score: 85 },

{ name: 'Rohit', score: 90 },

{ name: 'Gill', score: 45 },

{ name: 'Rahul', score: 30 },

{ name: 'Shreyas', score: 65 },

{ name: 'Pant', score: 50 },

{ name: 'Hardik', score: 70 },

{ name: 'Jadeja', score: 95 },

{ name: 'Ashwin', score: 60 },

{ name: 'Bumrah', score: 78 },

{ name: 'Siraj', score: 48 },

];

// Filter players with scores < 70 using arrow function

const filtered = players.filter(p => p.score < 70);

return (

<div>

<h2>All Players:</h2>

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

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

))}

<h3>Players with score below 70:</h3>

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

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

))}

</div>

);

};

export default ListofPlayers;

**Component 2: IndianPlayers.jsx**

// src/components/IndianPlayers.jsx

import React from 'react';

const IndianPlayers = () => {

const team = ['Kohli', 'Rohit', 'Gill', 'Rahul', 'Shreyas', 'Pant'];

// Destructuring

const [odd1, even1, odd2, even2, odd3, even3] = team;

const T20 = ['Surya', 'Ishan'];

const Ranji = ['Pujara', 'Rahane'];

// Merge arrays

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

return (

<div>

<h2>Odd Team Players:</h2>

<ul>

<li>{odd1}</li>

<li>{odd2}</li>

<li>{odd3}</li>

</ul>

<h2>Even Team Players:</h2>

<ul>

<li>{even1}</li>

<li>{even2}</li>

<li>{even3}</li>

</ul>

<h3>Merged Team (T20 + Ranji):</h3>

<ul>

{merged.map((p, i) => <li key={i}>{p}</li>)}

</ul>

</div>

);

};

export default IndianPlayers;

**App.js: Render Based on Flag**

// src/App.js

import React from 'react';

import ListofPlayers from './components/ListofPlayers';

import IndianPlayers from './components/IndianPlayers';

function App() {

const flag = true; // Change this to false to see IndianPlayers

return (

<div className="App">

<h1>🏏 Welcome to Cricket App</h1>

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

</div>

);

}

export default App;

**OUTPUT**

**When Flag = true**

All Players:

Virat - 85

...

Players with score below 70:

Gill - 45

Rahul - 30

...

**When Flag = false**

Odd Team Players:

Kohli

Gill

Shreyas

Even Team Players:

Rohit

Rahul

Pant

Merged Team:

Surya

Ishan

Pujara

Rahane