**Week 7 solutions  
Mandatory Hands-on**

**Exercise 9**

**IndianPlayers.js**

import React from 'react';  
  
const IndianPlayers = () => {  
 // source names (11 players)  
 const names = ['Virat','Rohit','KL','Jadeja','Rishabh','Shubman','Shreyas','Ishant','Axar','Hardik','Bumrah'];  
  
   
 const [p1, p2, p3, p4, p5, p6, p7, p8, p9, p10, p11] = names;  
  
   
 const oddTeam = [p1, p3, p5, p7, p9, p11];   
 const evenTeam = [p2, p4, p6, p8, p10];   
  
   
 const T20players = ['Hardik', 'Rohit', 'Karthik'];  
 const RanjiTrophy = ['Shivam', 'Priyank', 'Chetan'];  
  
   
 const mergedSquad = [...T20players, ...RanjiTrophy];  
  
 return (  
 <div>  
 <h2>Indian Players — Odd/Even Teams (created via destructuring)</h2>  
  
 <h3>Odd Team Players</h3>  
 <ul>  
 {oddTeam.map((name, i) => <li key={i}>{name}</li>)}  
 </ul>  
  
 <h3>Even Team Players</h3>  
 <ul>  
 {evenTeam.map((name, i) => <li key={i}>{name}</li>)}  
 </ul>  
  
 <h3>Merged Squad (T20 + Ranji)</h3>  
 <ul>  
 {mergedSquad.map((name, i) => <li key={i}>{name}</li>)}  
 </ul>  
 </div>  
 );  
};  
  
export default IndianPlayers;

**ListofPlayers.js**

import React from 'react';  
  
const ListofPlayers = () => {  
   
 const players = [  
 { name: 'Virat', score: 89 },  
 { name: 'Rohit', score: 75 },  
 { name: 'KL', score: 68 },  
 { name: 'Jadeja', score: 55 },  
 { name: 'Rishabh', score: 92 },  
 { name: 'Shubman', score: 63 },  
 { name: 'Shreyas', score: 47 },  
 { name: 'Ishant', score: 28 },  
 { name: 'Axar', score: 74 },  
 { name: 'Hardik', score: 81 },  
 { name: 'Bumrah', score: 70 }  
 ];  
  
  
 const playerList = players.map((p, idx) => (  
 <li key={idx}>{p.name} — {p.score}</li>  
 ));  
  
  
 const below70 = players.filter(p => p.score < 70);  
 const below70List = below70.map((p, idx) => <li key={idx}>{p.name} — {p.score}</li>);  
  
 return (  
 <div>  
 <h2>All Players (11)</h2>  
 <ul>{playerList}</ul>  
  
 <h3>Players with score below 70</h3>  
 <ul>  
 {below70List.length > 0 ? below70List : <li>None</li>}  
 </ul>  
 </div>  
 );  
};  
  
export default ListofPlayers;

**Output**

Flag=true

**A screenshot of a cricket app

AI-generated content may be incorrect.**

Flag=false

A screen shot of a cricket application

AI-generated content may be incorrect.

**Exercise 10**

import React from "react";  
  
function App() {  
 const heading = <h1>Office Space Rental</h1>;  
 const officeImage = <img src="/office.jpg" alt="Office Space" width="400" />;  
  
 const office = {  
 name: "Skyline Tower",  
 rent: 55000,  
 address: "MG Road, Bengaluru"  
 };  
  
 const officeList = [  
 { name: "Skyline Tower", rent: 55000, address: "MG Road, Bengaluru" },  
 ];  
  
 return (  
 <div style={{ textAlign: "center" }}>  
 {heading}  
 {officeImage}  
  
 <h2>Single Office</h2>  
 <p>Name: {office.name}</p>  
 <p style={{ color: office.rent < 60000 ? "red" : "green" }}>  
 Rent: ₹{office.rent}  
 </p>  
 <p>Address: {office.address}</p>  
  
 <h2>All Offices</h2>  
 <ul style={{ listStyleType: "none", padding: 0 }}>  
 {officeList.map((o, index) => (  
 <li key={index}>  
 <strong>{o.name}</strong> -  
 <span style={{ color: o.rent < 60000 ? "red" : "green" }}>  
 ₹{o.rent}  
 </span> - {o.address}  
 </li>  
 ))}  
 </ul>  
 </div>  
 );  
}  
  
export default App;

**Output**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Exercise 11**

**CurrencyConvertor.js**

import React, { useState } from "react";  
  
function CurrencyConvertor() {  
 const [rupees, setRupees] = useState("");  
 const [euro, setEuro] = useState("");  
  
 const handleSubmit = (e) => {  
 e.preventDefault();  
   
 const rate = 90;  
 const converted = (rupees / rate).toFixed(2);  
 setEuro(converted);  
 };  
  
 return (  
 <div style={{ marginTop: "20px" }}>  
 <h2>Currency Converter</h2>  
 <form onSubmit={handleSubmit}>  
 <input  
 type="number"  
 value={rupees}  
 onChange={(e) => setRupees(e.target.value)}  
 placeholder="Enter amount in INR"  
 />  
 <button type="submit">Convert</button>  
 </form>  
 {euro && <p>{rupees} INR = {euro} EUR</p>}  
 </div>  
 );  
}  
  
export default CurrencyConvertor;

**Output**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Exercise 12**

**A computer screen shot of a program

AI-generated content may be incorrect.**

**A screen shot of a computer

AI-generated content may be incorrect.**

**Output**

**A white screen with a black text

AI-generated content may be incorrect.**

**A screen shot of a computer

AI-generated content may be incorrect.**

**Exercise 13**

**App.js**

import React, { useState } from "react";  
  
  
function BookDetails() {  
 return <h2>📚 Book Details: "A Gentleman in Moscow" by Amor Towles</h2>;  
}  
  
function BlogDetails() {  
 return <h2>📝 Blog Details: "How to Learn React in 2025"</h2>;  
}  
  
function CourseDetails() {  
 return <h2>🎓 Course Details: "Full Stack Web Development"</h2>;  
}  
  
export default function App() {  
 const [view, setView] = useState("book"); // book | blog | course  
 const [isLoggedIn, setIsLoggedIn] = useState(true);  
  
 return (  
 <div style={{ textAlign: "center", padding: "20px" }}>  
 <h1>📖 Blogger App</h1>  
  
 {/\* Conditional Rendering Method 1: if-else \*/}  
 <div>  
 {isLoggedIn ? (  
 <p>Welcome back, User!</p>  
 ) : (  
 <p>Please log in to see more details.</p>  
 )}  
 </div>  
  
 {/\* Conditional Rendering Method 2: Ternary operator \*/}  
 <div style={{ margin: "20px" }}>  
 <button onClick={() => setIsLoggedIn(!isLoggedIn)}>  
 {isLoggedIn ? "Logout" : "Login"}  
 </button>  
 </div>  
  
 {/\* Conditional Rendering Method 3: Logical AND (&&) \*/}  
 {isLoggedIn && (  
 <div style={{ marginBottom: "20px" }}>  
 <button onClick={() => setView("book")}>Show Book</button>  
 <button onClick={() => setView("blog")}>Show Blog</button>  
 <button onClick={() => setView("course")}>Show Course</button>  
 </div>  
 )}  
  
 {/\* Conditional Rendering Method 4: Switch-case style \*/}  
 <div style={{ border: "1px solid black", padding: "20px" }}>  
 {(() => {  
 switch (view) {  
 case "book":  
 return <BookDetails />;  
 case "blog":  
 return <BlogDetails />;  
 case "course":  
 return <CourseDetails />;  
 default:  
 return <p>Select a view.</p>;  
 }  
 })()}  
 </div>  
 </div>  
 );  
}

**Output**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**