9. cricketapp

Objectives

- **List the features of ES6**
- **Explain JavaScript let**
- **Identify the differences between var and let**
- **Explain JavaScript const**
- **Explain ES6 class fundamentals**
- **Explain ES6 class inheritance**
- **Define ES6 arrow functions**
- **Identify set(), map()**

In this hands-on lab, you will learn how to:

- **Use map() method of ES6**
- **Apply arrow functions of ES6**
- **Implement Destructuring features of ES6**

Prerequisites

The following is required to complete this hands-on lab:

- **Node.js**
- **NPM**
- **Visual Studio Code**

Notes

Estimated time to complete this lab: 60 minutes.

Create a React Application named "cricketapp" with the following components:

1. **ListofPlayers**
    - **Declare an array with 11 players and store details of their names and scores using the map feature of ES6**

```
return(
      players.map((item)=>
     {
     return(
        <div>
           <li>Mr. {item.name}<span> {item.score} </span></li>
        </div>

     )})
     )
```

    - **Filter the players with scores below 70 using arrow functions of ES6.**

```
return(
     players.map((item)=>
    {
     if(item.score<=70)
      {
         players70.push(item);
      }
     }),
```

2. **IndianPlayers**

a. **Display the Odd Team Player and Even Team players using the Destructuring features of ES6**

```
export function OddPlayers([first,, third,,fifth]) {
   return(
   <div>
      <li> First :  {first}  </li>
      <li> Third :  {third} </li>
      <li> Fifth : {fifth}</li>
   </div>)}
```

b. **Declare two arrays T20players and RanjiTrophy players and merge the two arrays and display them using the Merge feature of ES6**

```
const T20Players=['First Player','Second Player','Third Player'];
   const RanjiTrophyPlayers=['Fourth Player','Fifth Player','Sixth Player'];
  export const IndianPlayers=[...T20Players, ...RanjiTrophyPlayers]
```

Display these two components in the same home page using a simple if else in the flag variable.

CODE:

App.js

```
import React from 'react';

import ListofPlayers from './ListofPlayers';

import { OddPlayers, EvenPlayers } from './OddEvenPlayers';

import MergedPlayers from './MergedPlayers';


function App() {

  const flag = true;
```

```
  const allPlayers = [
    'Sachin1',
    'Dhoni2',
    'Virat3',
    'Rohit4',
    'Yuvaraj5',
    'Raina6',
  ];

  return (
    <div className="App">
      {flag ? (
        <ListofPlayers />
      ) : (
        <>
          <OddPlayers {...[allPlayers]} />
          <EvenPlayers {...[allPlayers]} />
          <MergedPlayers />
        </>
      )}
    </div>
  );
}

export default App;
```

MergedPlayers.js

```
import React from 'react';

const T20Players = ['First Player', 'Second Player', 'Third Player'];
const RanjiTrophyPlayers = ['Fourth Player', 'Fifth Player', 'Sixth Player'];

export const IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];

const MergedPlayers = () => {
  return (
    <div>
      <h2>List of Indian Players Merged:</h2>
      <ul>
        {IndianPlayers.map((player, index) => (
          <li key={index}>Mr. {player}</li>
        ))}
      </ul>
    </div>
  );
};

export default MergedPlayers;
```

OddEvenPlayers.js

```
import React from 'react';
// Destructuring with skipped values
export function OddPlayers([first, , third, , fifth]) {
  return (
    <div>
      <h2>Odd Players</h2>
      <li>First : {first}</li>
      <li>Third : {third}</li>
      <li>Fifth : {fifth}</li>
    </div>
  );
}

export function EvenPlayers([, second, , fourth, , sixth]) {
  return (
    <div>
      <h2>Even Players</h2>
      <li>Second : {second}</li>
      <li>Fourth : {fourth}</li>
      <li>Sixth : {sixth}</li>
    </div>
  );
```

```
}
```

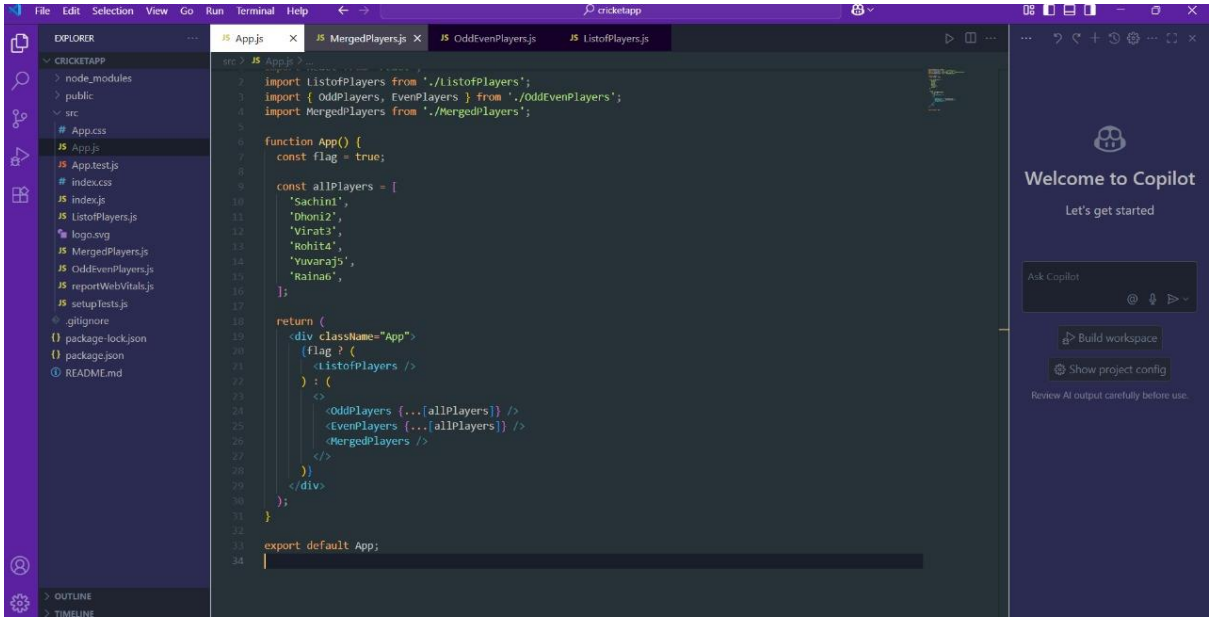
ListOfPlayers.js

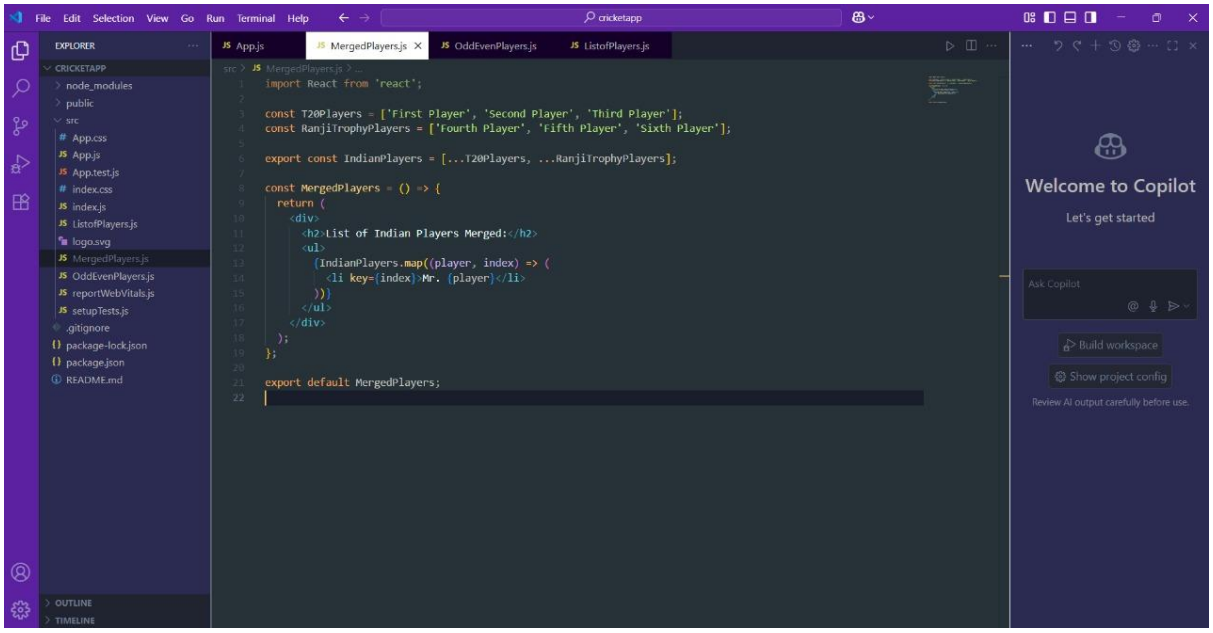
```
import React from 'react';


const ListofPlayers = () => {
  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 },
  ];


  const players70 = [];
  players.map((item) => {
    if (item.score <= 70) {
      players70.push(item);
    }
    return null;
```

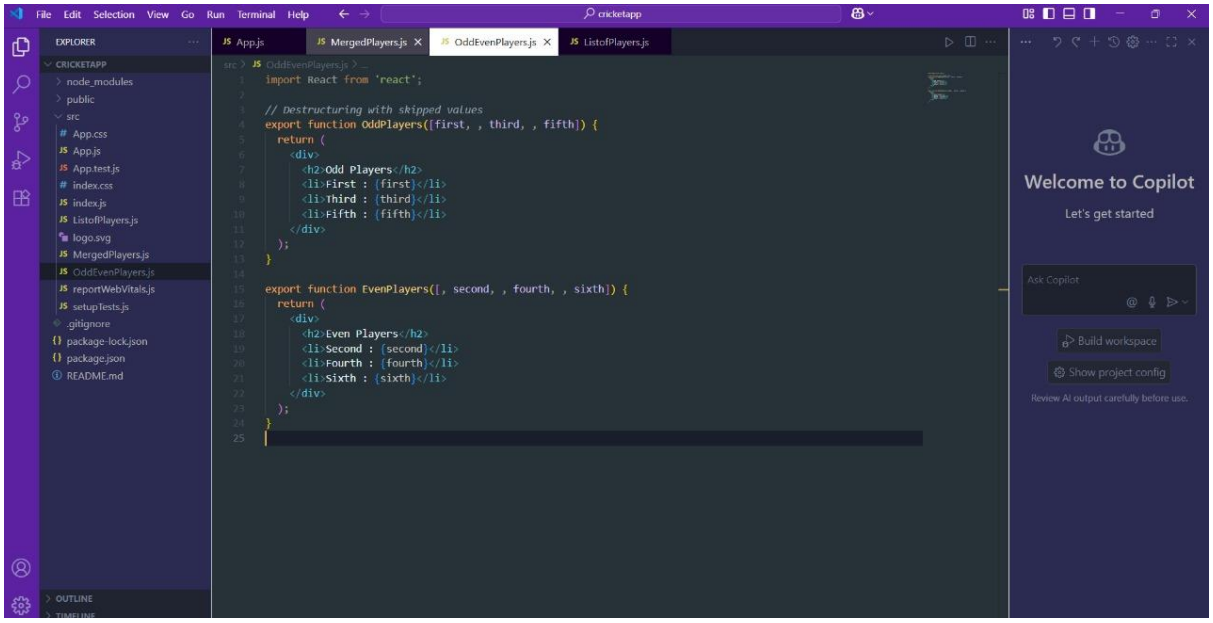
```
});

return (
  <div>
    <h2>List of Players</h2>
    <ul>
      {players.map((item, index) => {
        return (
          <li key={index}>
            Mr. {item.name} <span>{item.score}</span>
          </li>
        );
      })}
    </ul>

    <h2>List of Players having Scores Less than 70</h2>
    <ul>
      {players70.map((item, index) => (
        <li key={index}>
          Mr. {item.name} <span>{item.score}</span>
        </li>
      ))}
    </ul>
  </div>
);
```

};

export default ListofPlayers;






File Edit Selection View Go Run Terminal Help
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EXPLORER
CRICKETAPP
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src
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App.test.js
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index.js
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package-lock.json
package.json
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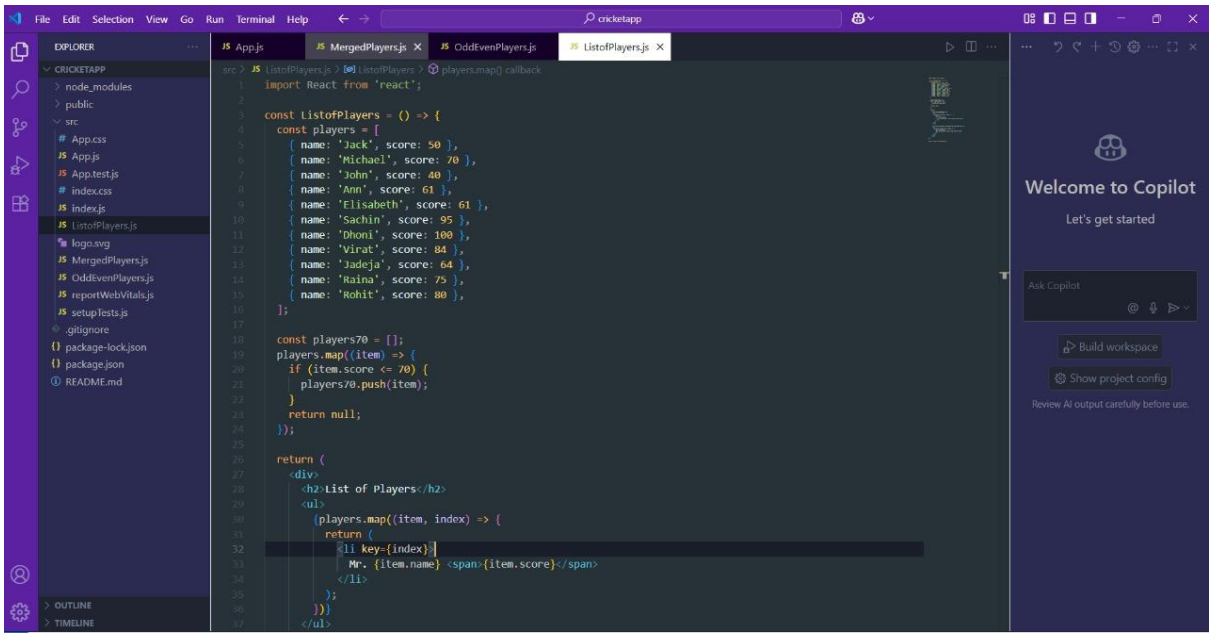
export function OddPlayers([first, , third, , fifth]) {
return (

<h2>Odd Players</h2>
<li>First : {first}</li>
<li>Third : {third}</li>
<li>Fifth : {fifth}</li>

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

<h2>Even Players</h2>
<li>Second : {second}</li>
<li>Fourth : {fourth}</li>
<li>Sixth : {sixth}</li>

);
}
Welcome to Copilot
Let's get started
Ask Copilot
Build workspace
Show project config
Review AI output carefully before use.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{ name: 'Virat', score: 84 },
{ name: 'Jadeja', score: 64 },
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{ name: 'Rohit', score: 80 },
];
const players70 = [];
players.map((item) => {
if (item.score <= 70) {
players70.push(item);
}
return null;
});
return (

<h2>List of Players</h2>
<ul>
{players.map((item, index) => {
return (
<li key={index}>
Mr. {item.name} {item.score}
</li>
);
})}
</ul>
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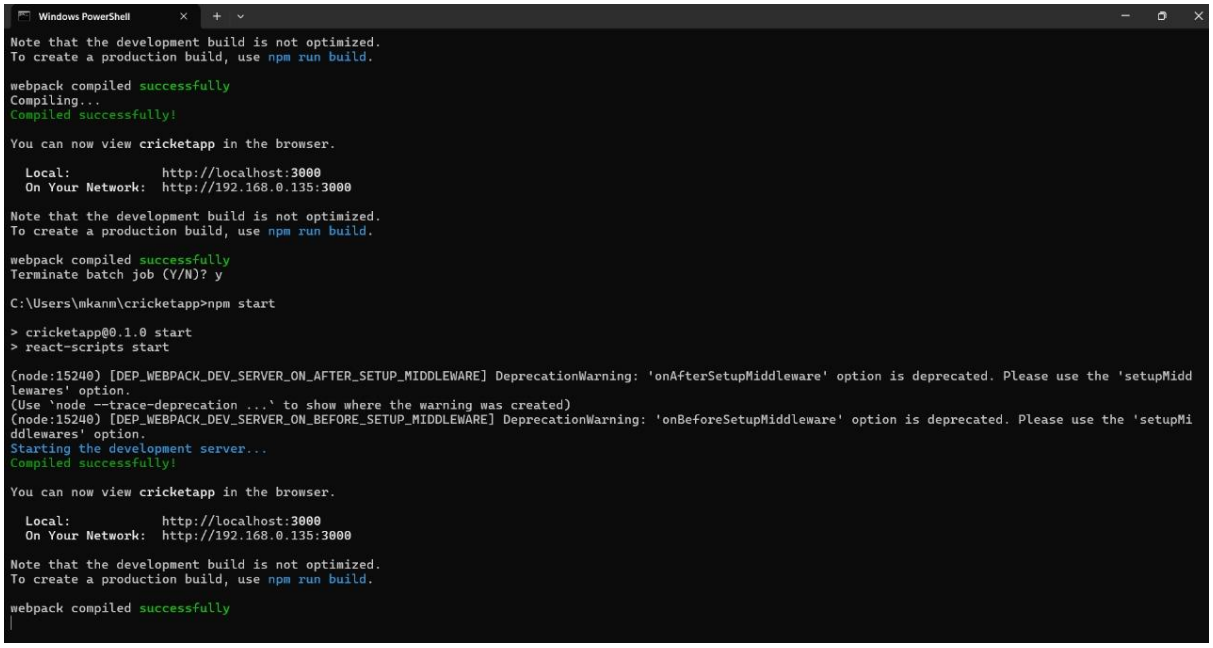
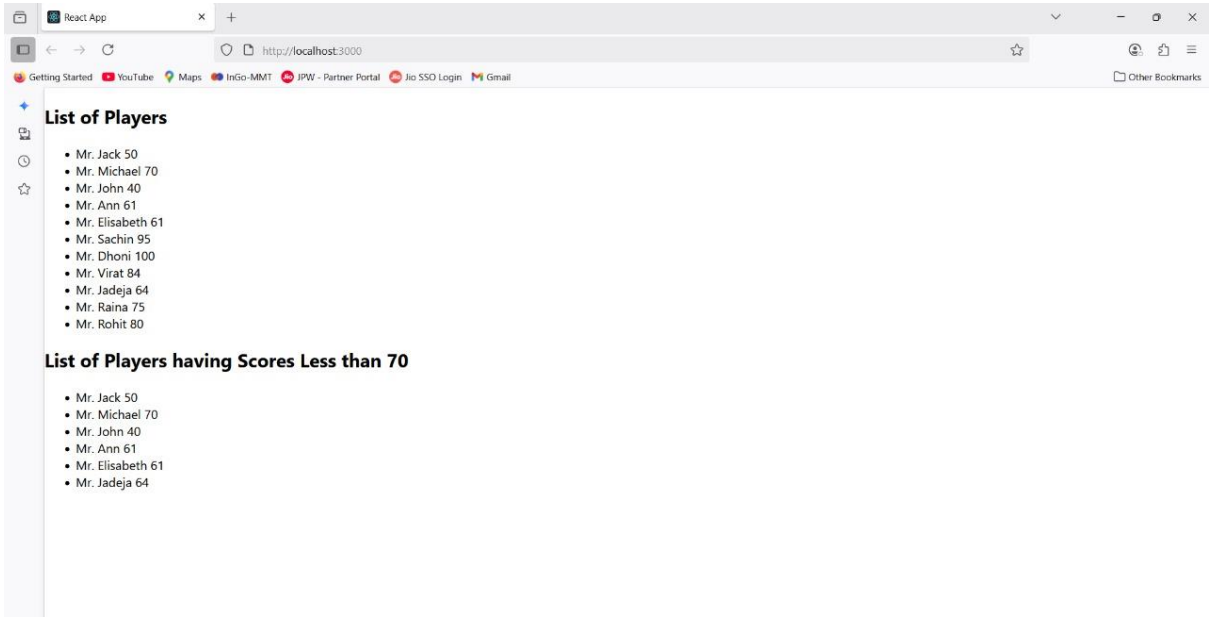
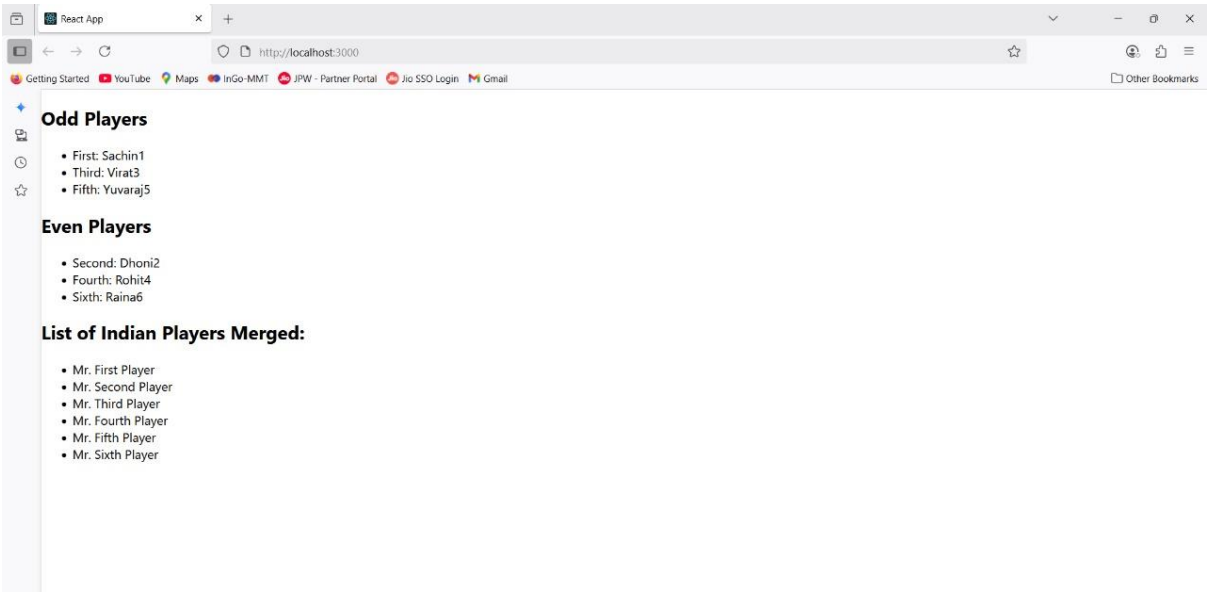


Output:

When Flag=true



When Flag=false



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