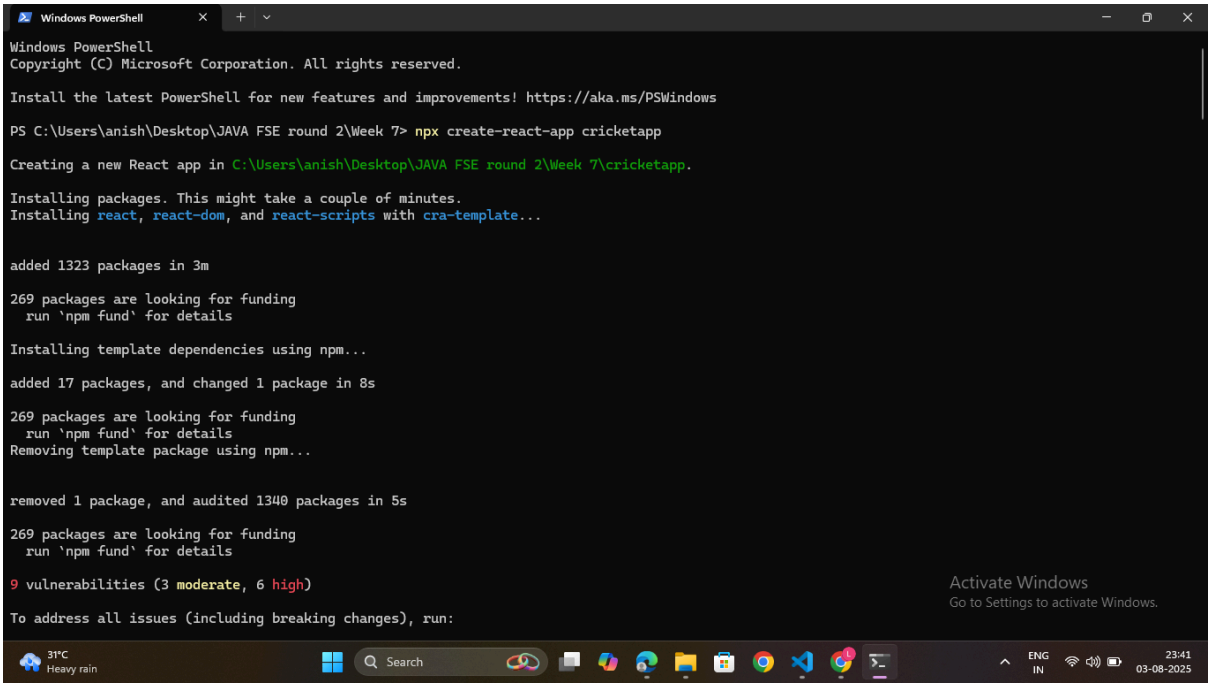
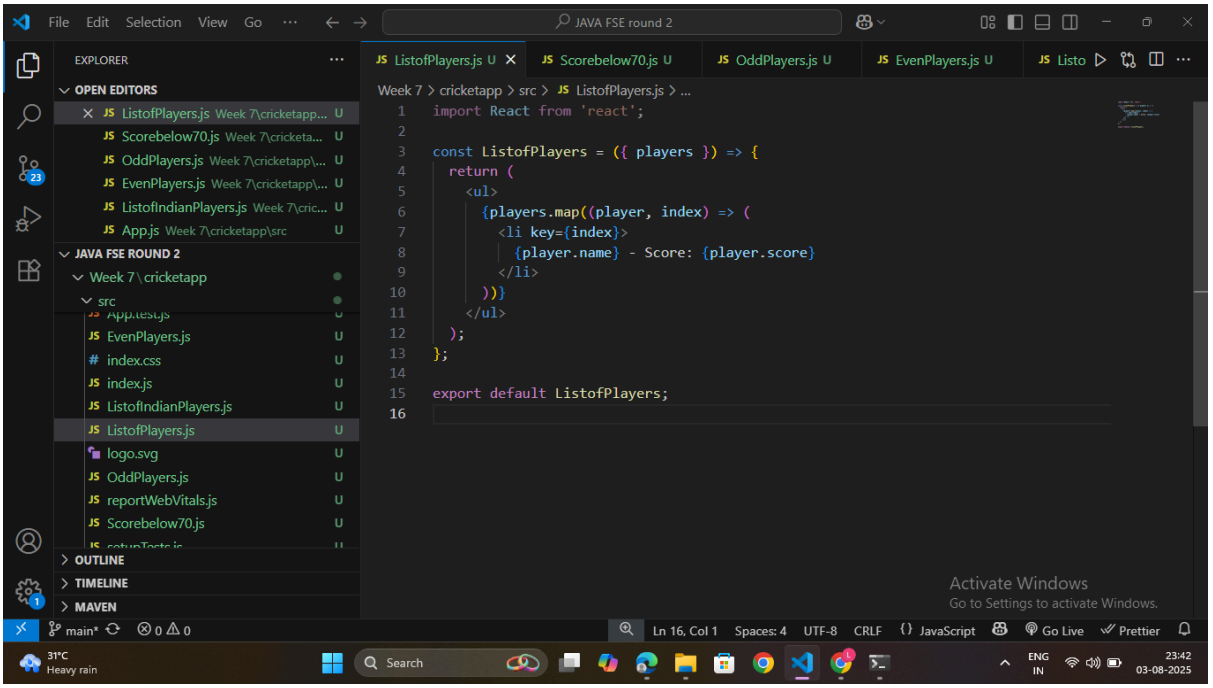
# 9. ReactJS-HOL

Create a React Application named “cricketapp” with the following components:

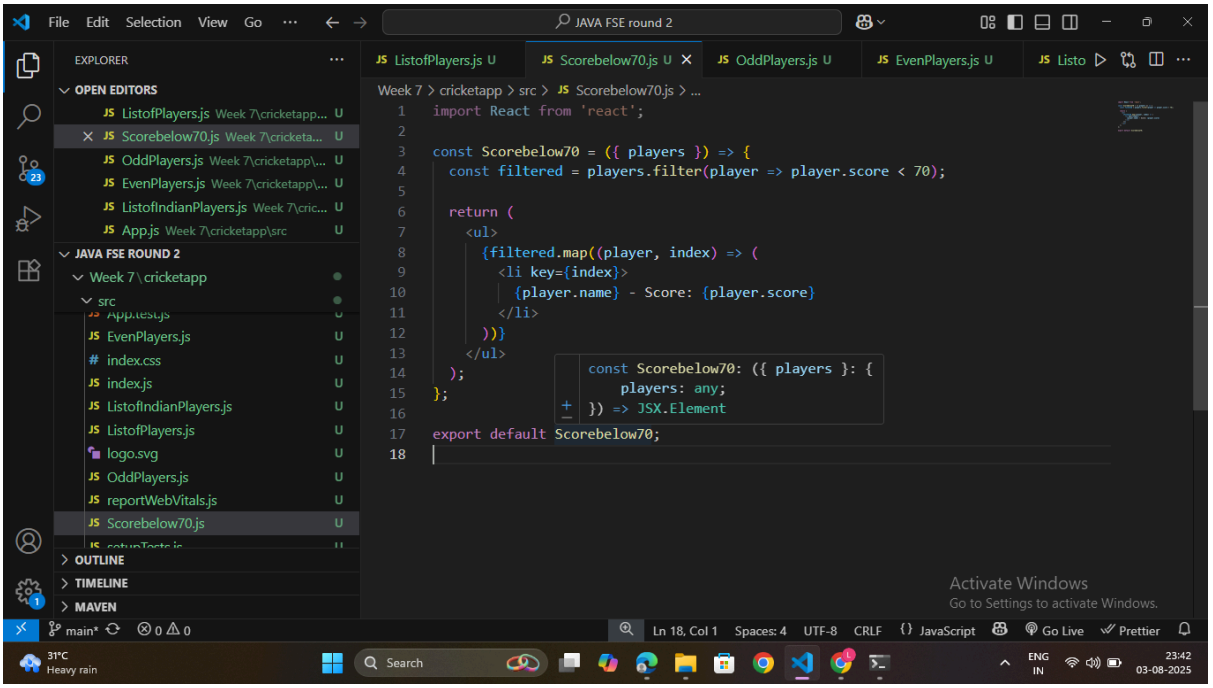



1. ListofPlayers

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

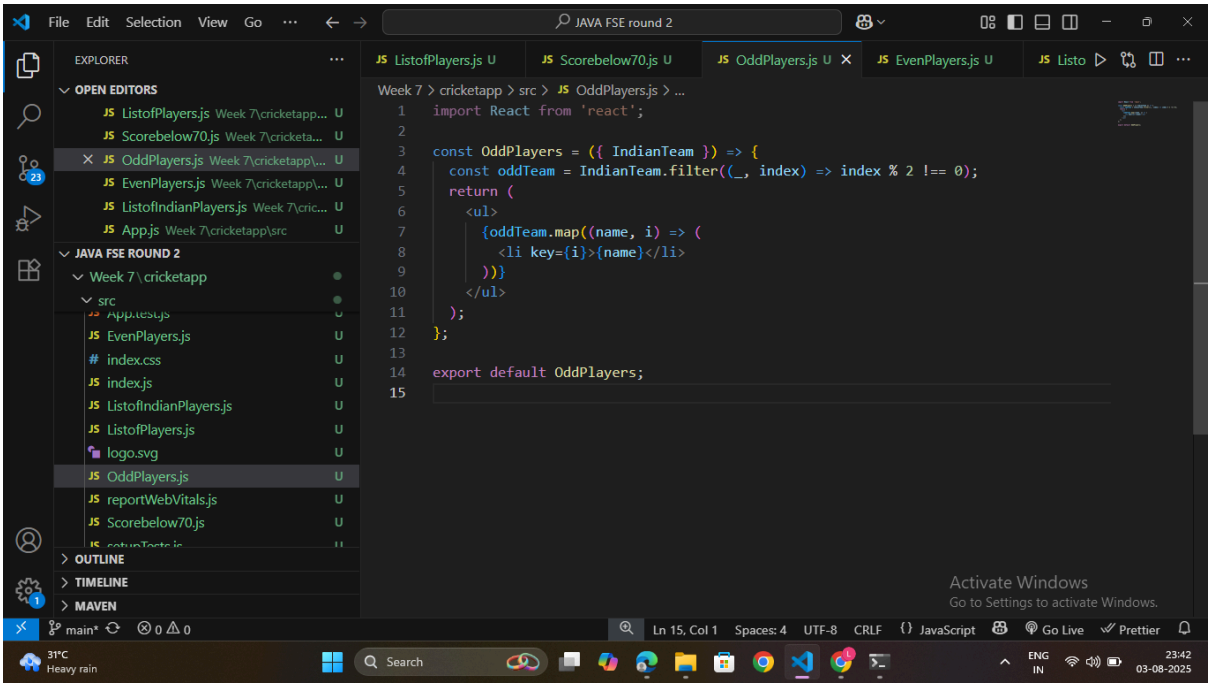


- Filter the players with scores below 70 using arrow functions of ES6.

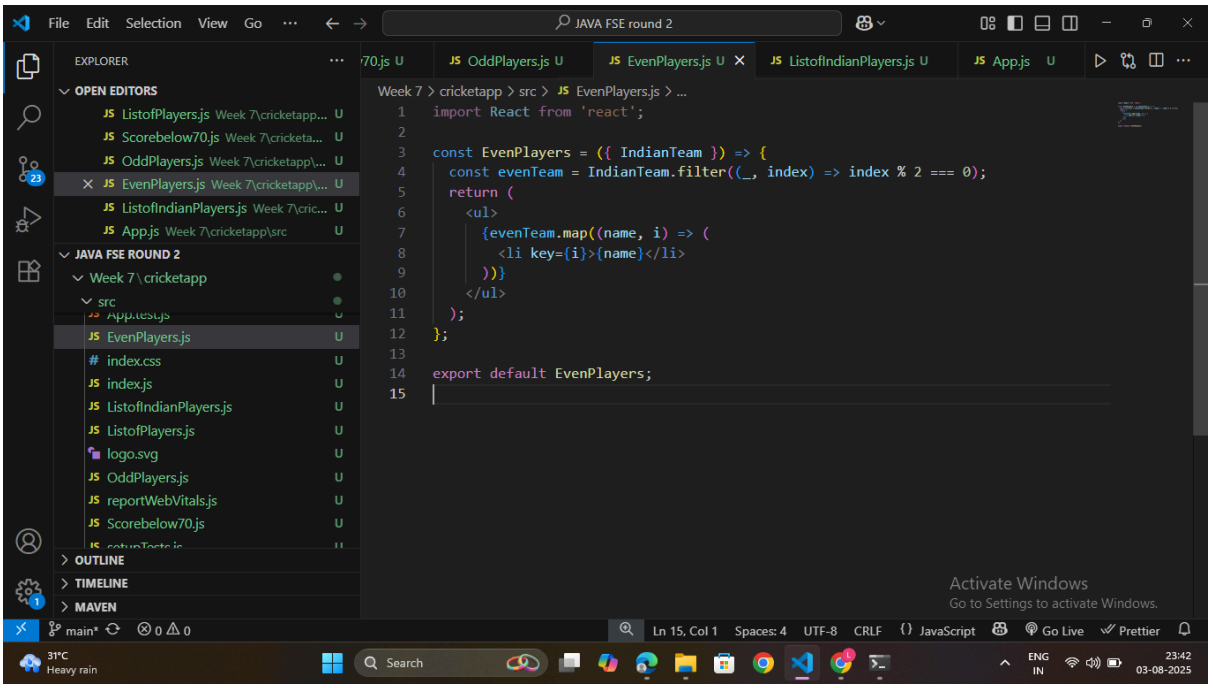



2. IndianPlayers

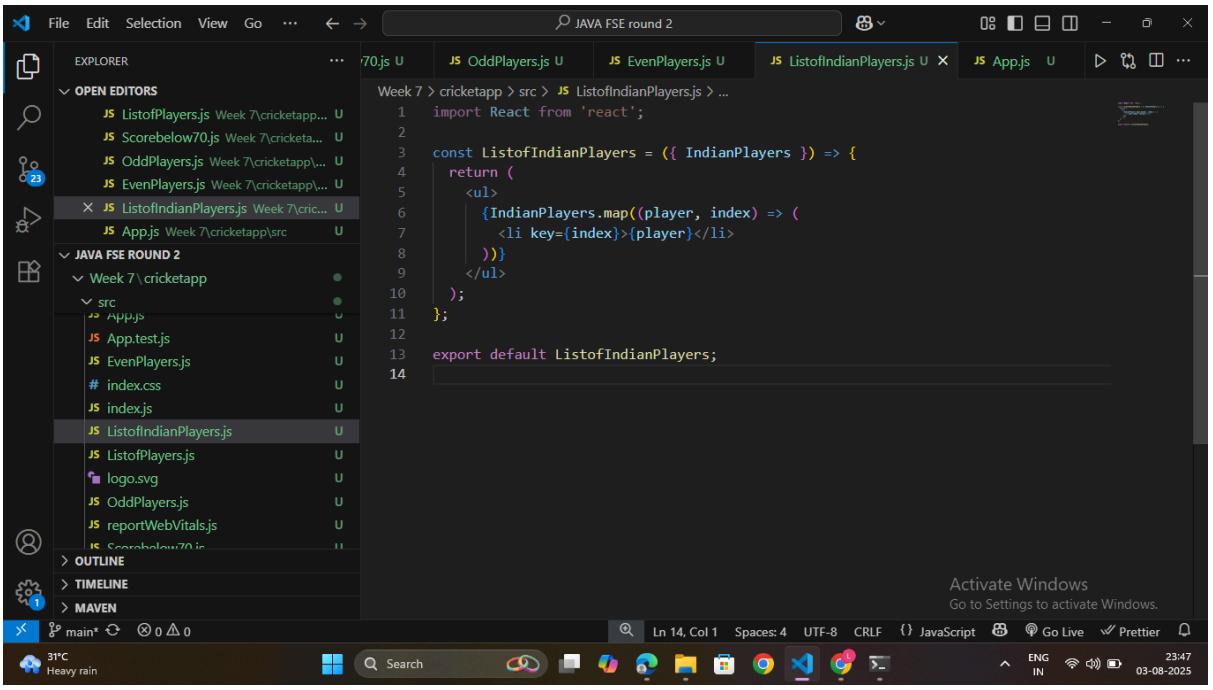
a. Display the Odd Team Player and Even Team players using the Destructuring features of ES6



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




ListiofIndianPlayers.js

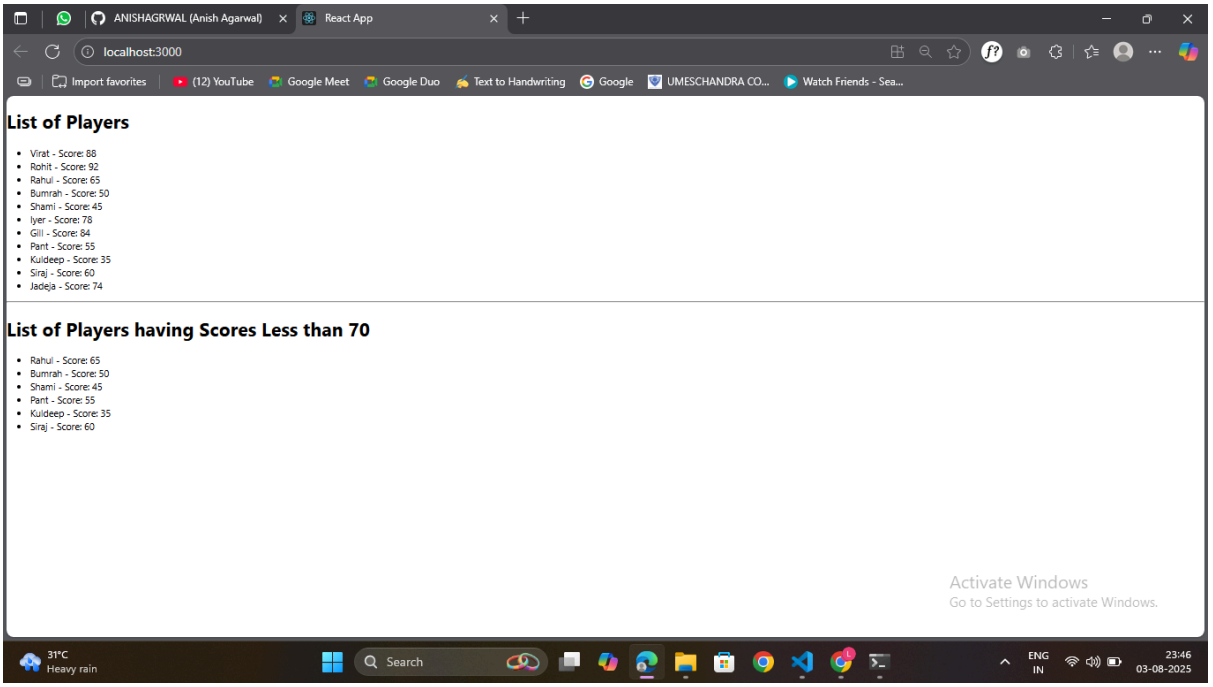


App.js

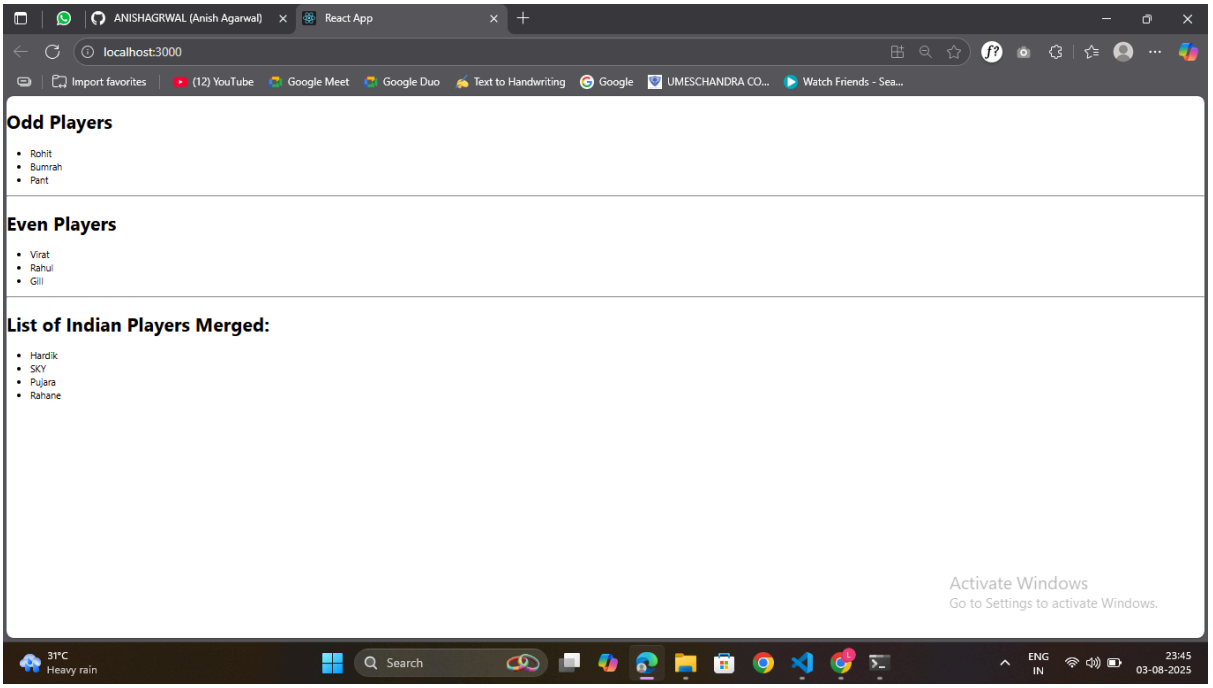
```
import React from 'react';
import ListofPlayers from './ListofPlayers';
import Scorebelow70 from './Scorebelow70';
import OddPlayers from './OddPlayers';
import EvenPlayers from './EvenPlayers';
import ListofIndianPlayers from './ListofIndianPlayers';
function App() {
  const flag = false;
  const players = [
    { name: "Virat", score: 88 },
    { name: "Rohit", score: 92 },
    { name: "Rahul", score: 65 },
    { name: "Bumrah", score: 50 },
    { name: "Shami", score: 45 },
    { name: "Iyer", score: 78 },
    { name: "Gill", score: 84 },
    { name: "Pant", score: 55 },
    { name: "Kuldeep", score: 35 },
    { name: "Siraj", score: 60 },
    { name: "Jadeja", score: 74 },
  ];
  const IndianTeam = ["Virat", "Rohit", "Rahul", "Bumrah", "Gill", "Pant"];
  const T20players = ["Hardik", "SKY"];
  const RanjiTrophyPlayers = ["Pujara", "Rahane"];
  const IndianPlayers = [...T20players, ...RanjiTrophyPlayers]; // Merge
  if (flag === true) {
    return (
      <div>
        <h1>List of Players</h1>
        <ListofPlayers players={players} />
        <hr />
        <h1>List of Players having Scores Less than 70</h1>
        <Scorebelow70 players={players} />
      </div>
    );
  } else {
    return (
      <div>
        <div>
          {/* <h1>Indian Team</h1> */}
          <h1>Odd Players</h1>
          <OddPlayers IndianTeam={IndianTeam} />
          <hr />
          <h1>Even Players</h1>
          <EvenPlayers IndianTeam={IndianTeam} />
        </div>
        <hr />
        <div>
          <h1>List of Indian Players Merged:</h1>
          <ListofIndianPlayers IndianPlayers={IndianPlayers} />
        </div>
      </div>
    );
  }
}
export default App;
```

## Output:

When Flag=true

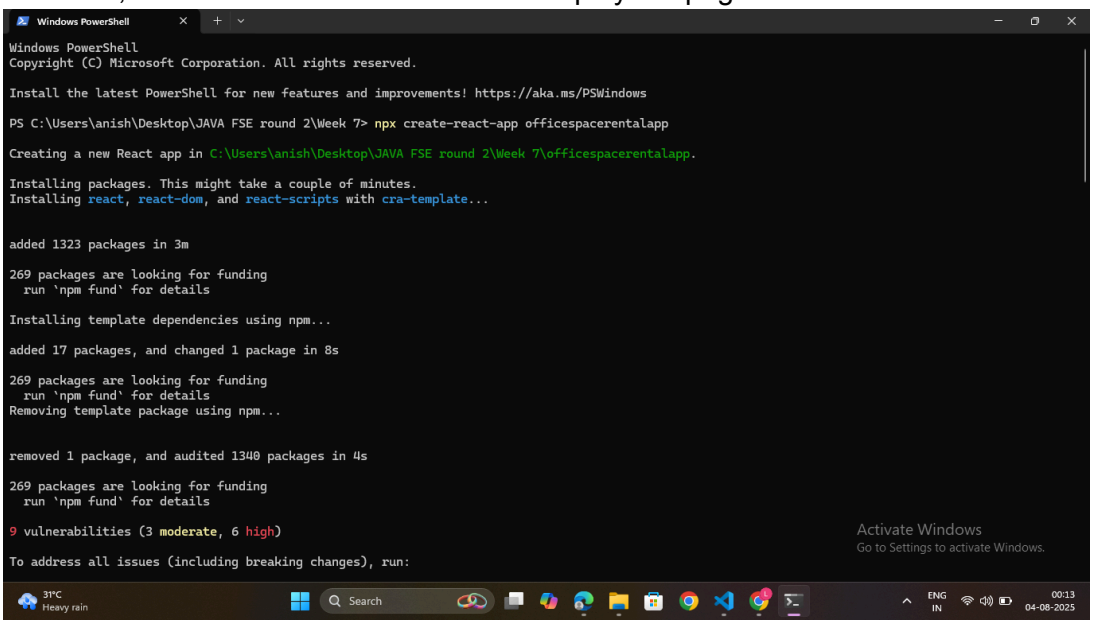



When Flag=false



# 10. ReactJS-HOL

Create a React Application named “officespacerentalapp” which uses React JSX to create elements, attributes and renders DOM to display the page.



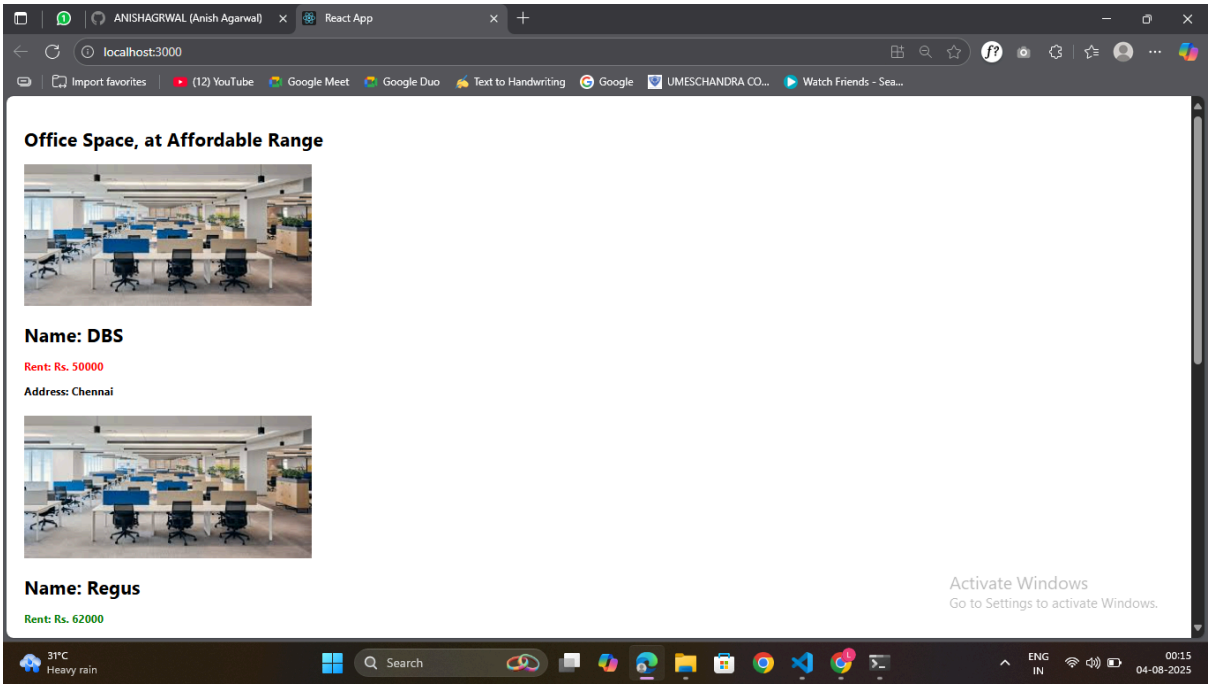

Create an element to display the heading of the page.
Attribute to display the image of the office space
Create an object of office to display the details like Name, Rent and Address.
Create a list of Object and loop through the office space item to display more data.

```
import React from 'react';
import './App.css';
function App() {
  const title = "Office Space";
  const offices = [
    { Name: "DBS", Rent: 50000, Address: "Chennai" },
    { Name: "Regus", Rent: 62000, Address: "Mumbai" },
    { Name: "WeWork", Rent: 58000, Address: "Bangalore" },
    { Name: "Smartworks", Rent: 61000, Address: "Hyderabad" }
  ];
  return (
    <div style={{ padding: "30px" }}>
      <h1>{title}, at Affordable Range</h1>
      {offices.map((item, index) => {
        const rentClass = item.Rent <= 60000 ? "textRed" : "textGreen";
        return (
          <div key={index} style={{ marginBottom: "30px" }}>
            <img
              src="/office.jpg"
              width="25%"
              height="25%"
              alt="Office Space"
            />
            <h1>Name: {item.Name}</h1>
            <h3 className={rentClass}>Rent: Rs. {item.Rent}</h3>
            <h3>Address: {item.Address}</h3>
          </div>
        );
      })}
    </div>
  );
}
export default App;
```

To apply Css, Display the color of the Rent in Red if it’s below 60000 and in Green if it’s above 60000.

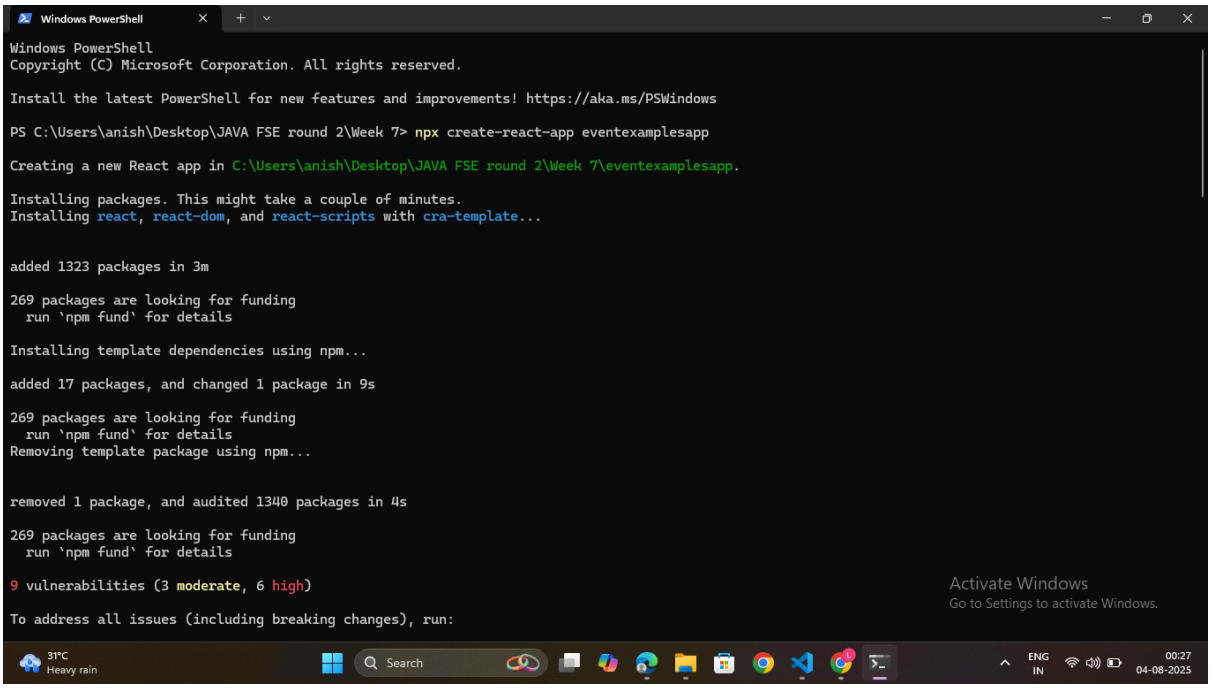
```
.App {
  text-align: center;
}

.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}

.textRed {
  color: red;
  font-weight: bold;
}

.textGreen {
  color: green;
  font-weight: bold;
}
```

Output:

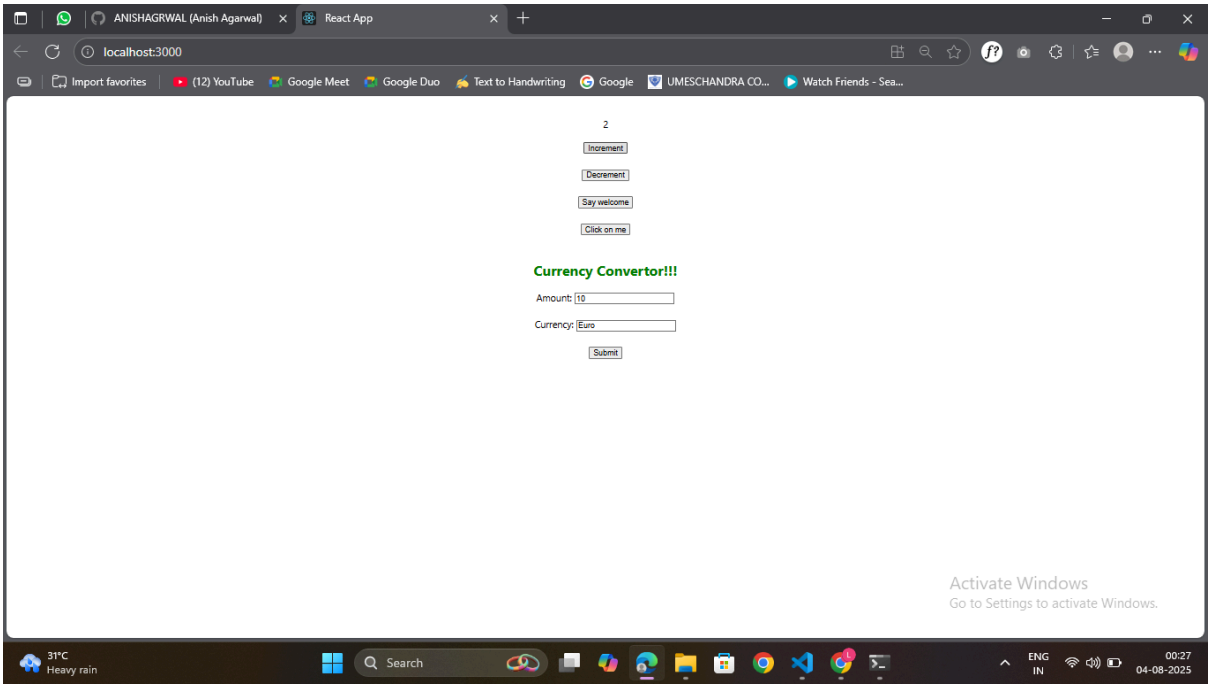

ANISHAGRWAL (Anish Agarwal)
React App
localhost:3000
Import favorites
(12) YouTube
Google Meet
Google Duo
Text to Handwriting
Google
UMESCHANDRA CO...
Watch Friends - Sea...
Office Space, at Affordable Range
Name: DBS
Rent: Rs. 50000
Address: Chennai
Name: Regus
Rent: Rs. 62000
Activate Windows
Go to Settings to activate Windows.
31°C
Heavy rain
Search
ENG
IN
00:15
04-08-2025

# 11. ReactJS-HOL

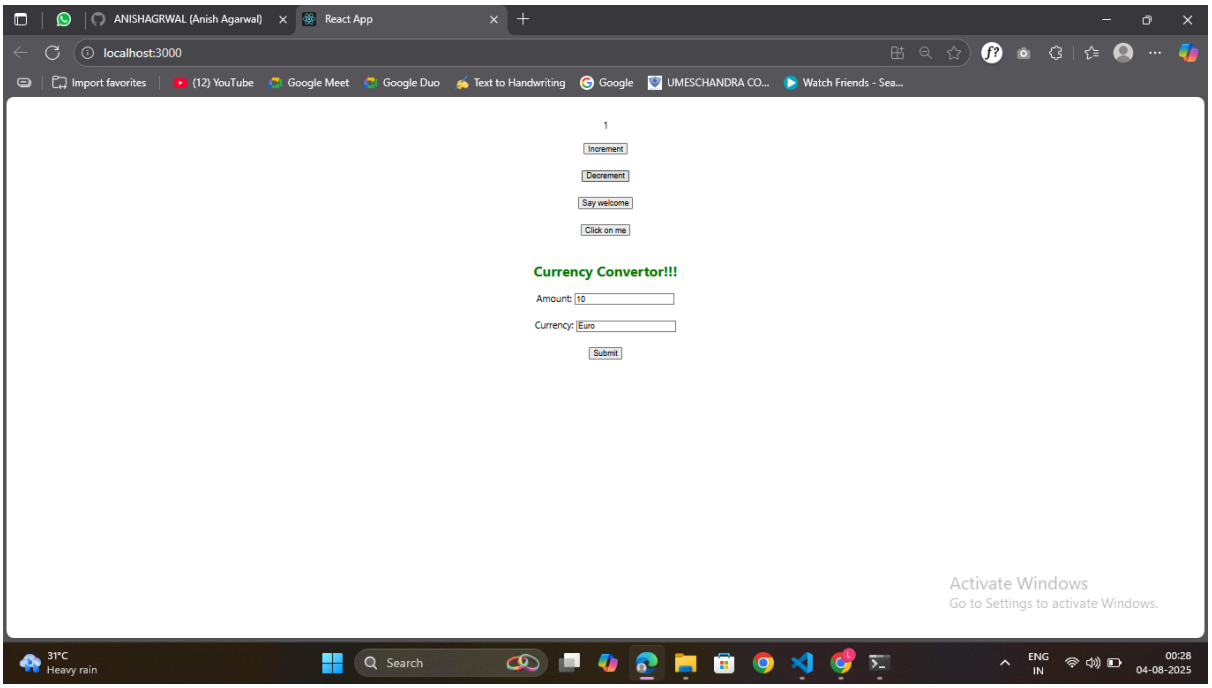
Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.



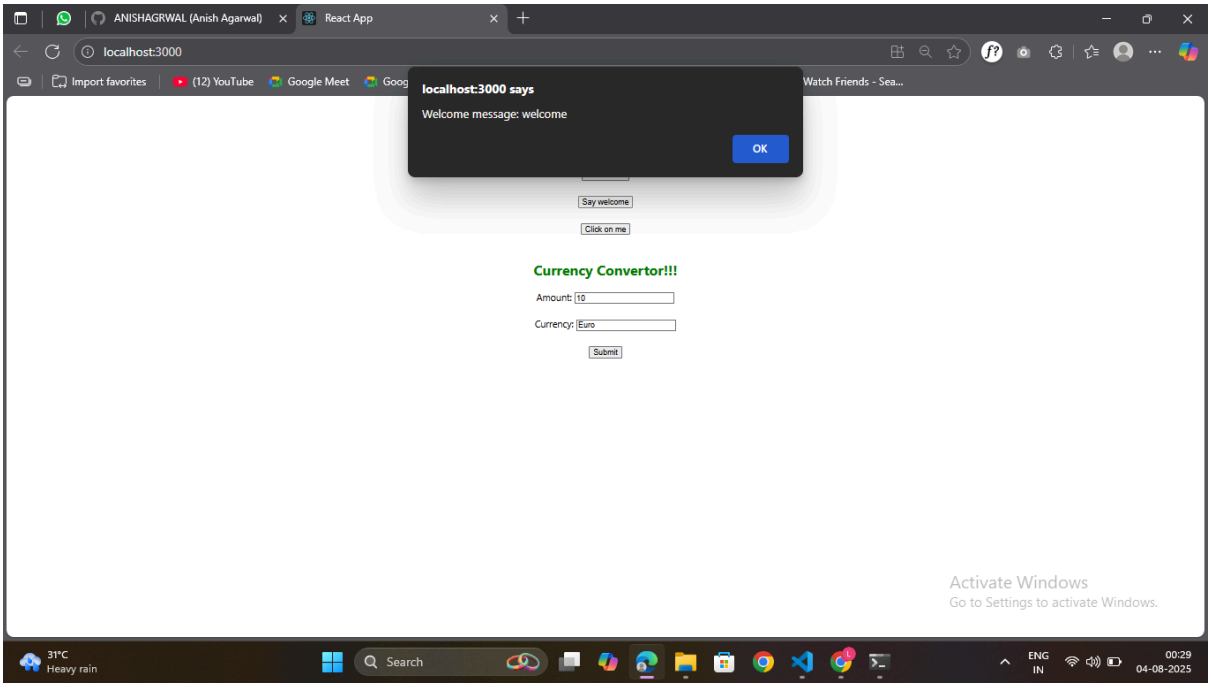

1. Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.
    a. To increment the value



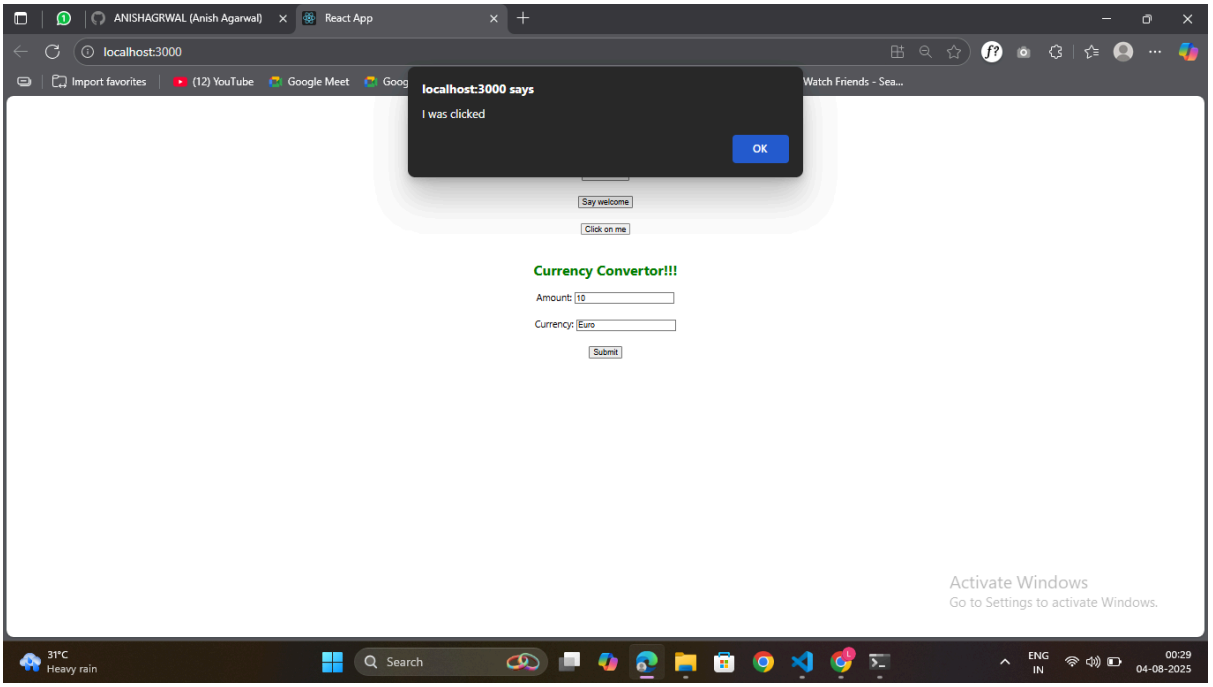
b. To decrement the value




2. Create a button “Say Welcome” which invokes the function which takes “welcome” as an argument.

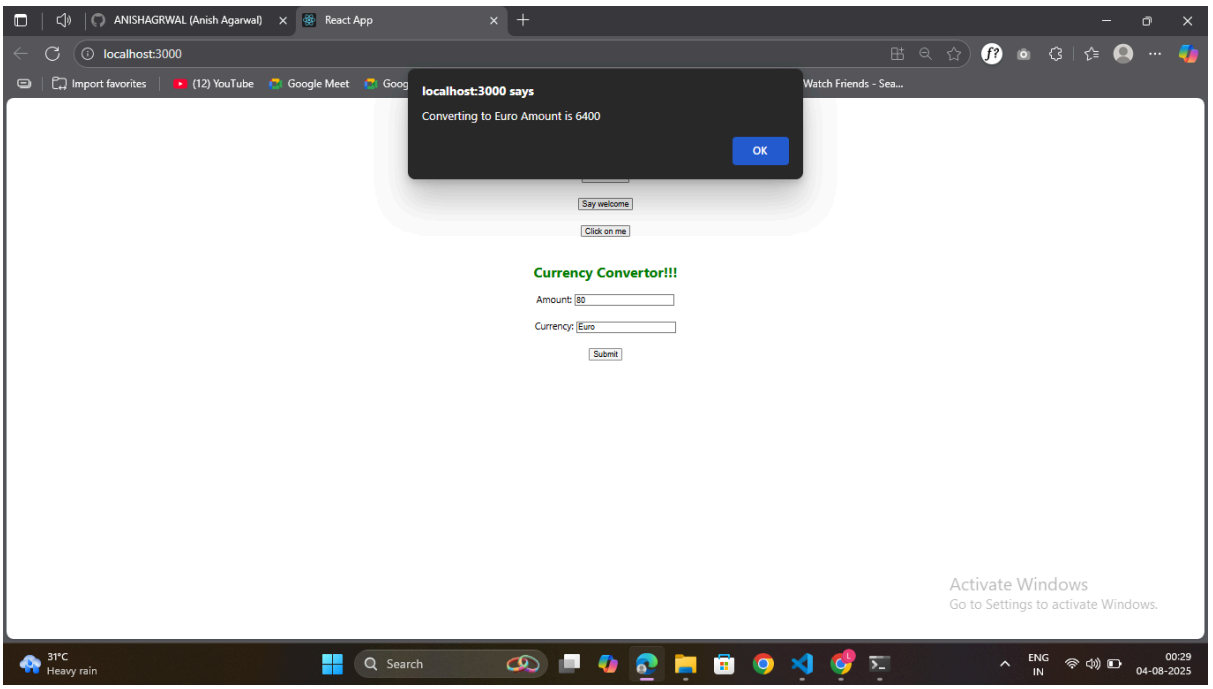


3. Create a button which invokes synthetic event “OnPress” which display “I was clicked”




Create a “CurrencyConvertor” component which will convert the Indian Rupees to Euro when the Convert button is clicked.

Handle the Click event of the button to invoke the handleSubmit event and handle the conversion of the euro to rupees.



# 12. ReactJS-HOL

Create a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.

The Login and Logout buttons should accordingly display different pages. Once the user is logged in the User page should be displayed. When the user clicks on Logout, the Guest page should be displayed.

**a. Greeting.js**

```
import React from 'react';
import UserGreeting from './UserGreeting';
import GuestGreeting from './GuestGreeting';
function Greeting(props) {
  const isLoggedIn = props.isLoggedIn;
  if (isLoggedIn) {
    return <UserGreeting />;
  }
  return <GuestGreeting />;
}
export default Greeting;
```

---

**b. UserGreeting.js**

```
import React from 'react';
function UserGreeting() {
  return <h1>Welcome back</h1>;
}
export default UserGreeting;
```

---

**c. GuestGreeting.js**

```
import React from 'react';
function GuestGreeting() {
  return <h1>Please sign up.</h1>;
}
export default GuestGreeting;
```

---

**d. LoginButton.js**

```
import React from 'react';
function LoginButton(props) {
  return (
    <button onClick={props.onClick}>
      Login
    </button>
  );
}
export default LoginButton;
```

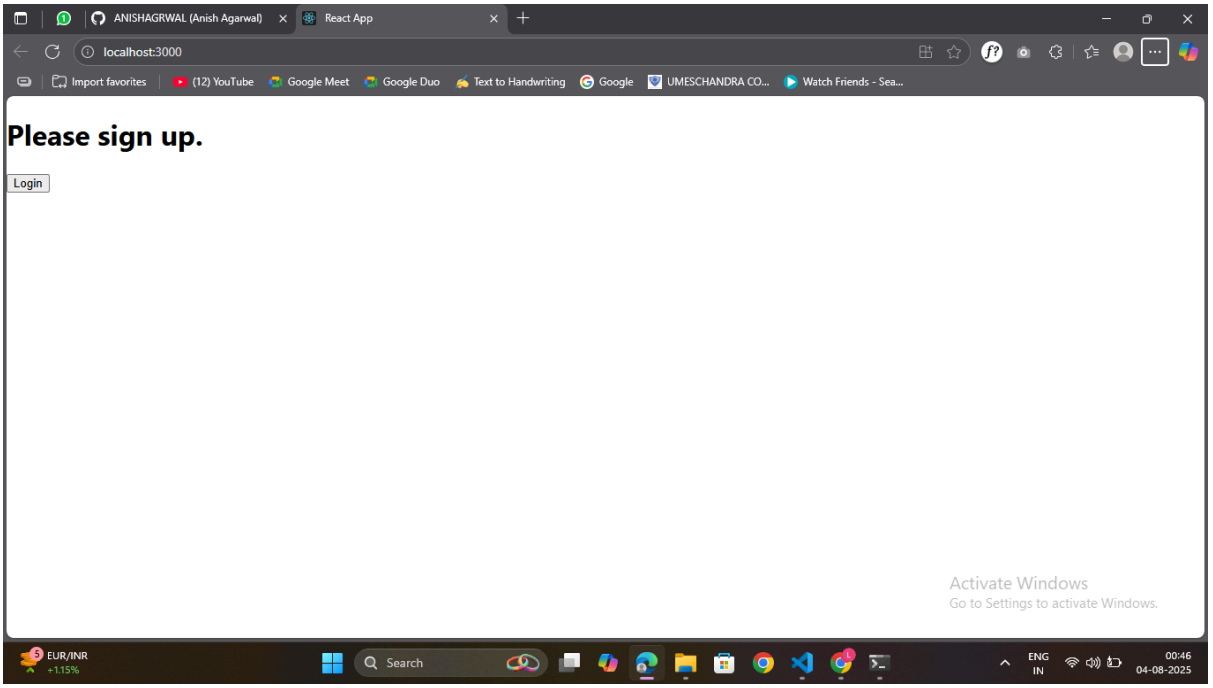
**e. LogoutButton.js**

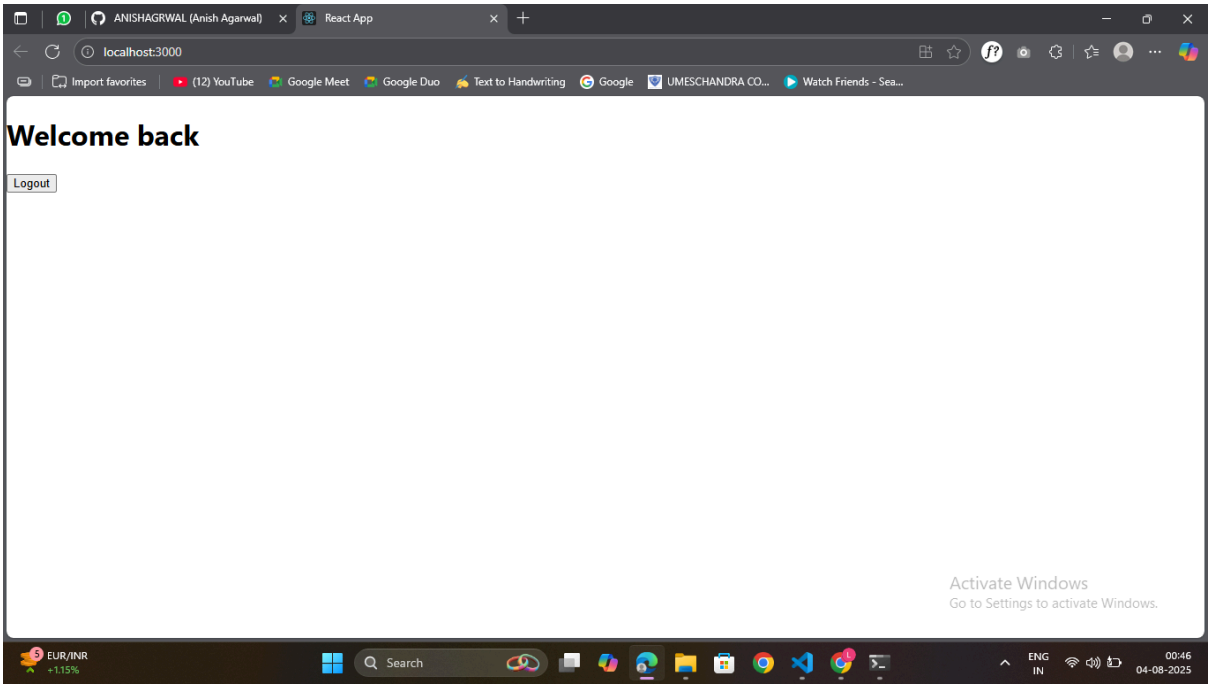
```
import React from 'react';
function LogoutButton(props) {
  return (
    <button onClick={props.onClick}>
      Logout
    </button>
  );
}
export default LogoutButton;
```

**Edit App.js**

```
import React, { useState } from 'react';
import Greeting from './Greeting';
import LoginButton from './LoginButton';
import LogoutButton from './LogoutButton';
function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);
  const handleLoginClick = () => setIsLoggedIn(true);
  const handleLogoutClick = () => setIsLoggedIn(false);
  let button;
  if (isLoggedIn) {
    button = <LogoutButton onClick={handleLogoutClick} />;
  } else {
    button = <LoginButton onClick={handleLoginClick} />;
  }
  return (
    <div>
      <Greeting isLoggedIn={isLoggedIn} />
      {button}
    </div>
  );
}
export default App;
```

Output:


ANISHAGRWAL (Anish Agarwal)
React App
localhost:3000
Import favorites
(12) YouTube
Google Meet
Google Duo
Text to Handwriting
Google
UMESCHANDRA CO...
Watch Friends - Sea...
Please sign up.
Login
Activate Windows
Go to Settings to activate Windows.
EUR/INR
+1.15%
Search
ENG
IN
00:46
04-08-2025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React App
localhost:3000
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Google Meet
Google Duo
Text to Handwriting
Google
UMESCHANDRA CO...
Watch Friends - Sea...
Welcome back
Logout
Activate Windows
Go to Settings to activate Windows.
EUR/INR
+1.15%
Search
ENG
IN
00:46
04-08-2025

# 13. ReactJS-HOL

Create a React App named “bloggerapp” in with 3 components.

1. Book Details

```
import React from 'react';

const BookDetails = ({ show }) => {
  return (
    show && (
      <div>
        <h2>Book Details</h2>
        <p>Master React <br />670</p>
        <p>Deep Dive into Angular 11 <br />800</p>
        <p>Mongo Essentials <br />450</p>
      </div>
    )
  );
};
export default BookDetails;
```

2. Blog Details

```
import React from 'react';
const BlogDetails = ({ show }) => {
  let content;
  if (show) {
    content = (
      <div>
        <h2>Blog Details</h2>
        <h3>React Learning</h3>
        <p><b>Stephen Biz</b></p>
        <p>Welcome to learning React!</p>
        <h3>Installation</h3>
        <p><b>Schwezdenier</b></p>
        <p>You can install React from npm.</p>
      </div>
    );
  } else {
    content = null;
  }
  return content;
};
export default BlogDetails;
```

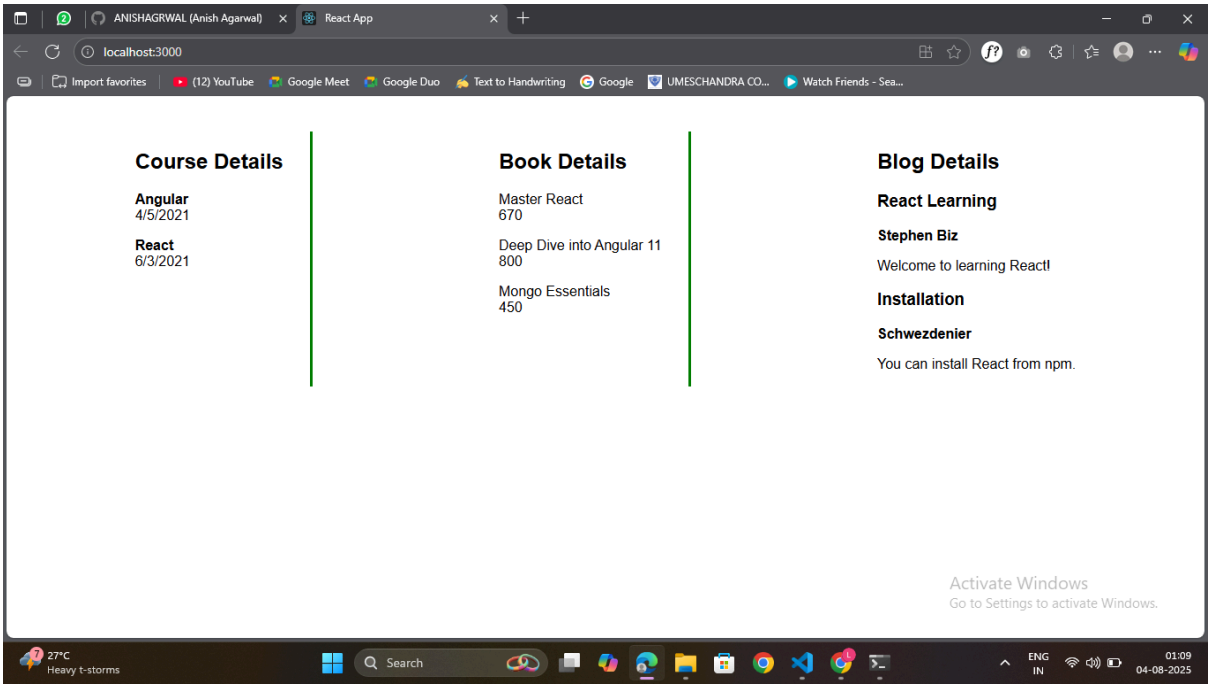
3. Course Details

```
import React from 'react';

const CourseDetails = ({ show }) => {
  return show ? (
    <div>
      <h2>Course Details</h2>
      <p><b>Angular</b><br />4/5/2021</p>
      <p><b>React</b><br />6/3/2021</p>
    </div>
  ) : null;
};

export default CourseDetails;
```

Implement this with as many ways possible of Conditional Rendering.

```
import React, { useState } from 'react';
import './App.css';
import CourseDetails from './components/CourseDetails';
import BookDetails from './components/BookDetails';
import BlogDetails from './components/BlogDetails';
function App() {
  const [showCourses, setShowCourses] = useState(true);
  const [showBooks, setShowBooks] = useState(true);
  const [showBlogs, setShowBlogs] = useState(true);
  return (
    <div style={{ display: "flex", justifyContent: "space-around",
padding: "40px" }}>
      <div style={{ borderRight: "3px solid green", paddingRight:
"30px" }}>
        <CourseDetails show={showCourses} />
      </div>
      <div style={{ borderRight: "3px solid green", paddingRight:
"30px" }}>
        <BookDetails show={showBooks} />
      </div>
      <div>
        <BlogDetails show={showBlogs} />
      </div>
    </div>
  );
}
export default App;
```

Output: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4/5/2021
React
6/3/2021
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Go to Settings to activate Windows.
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Heavy t-storms
Search
ENG
IN
01:09
04-08-2025