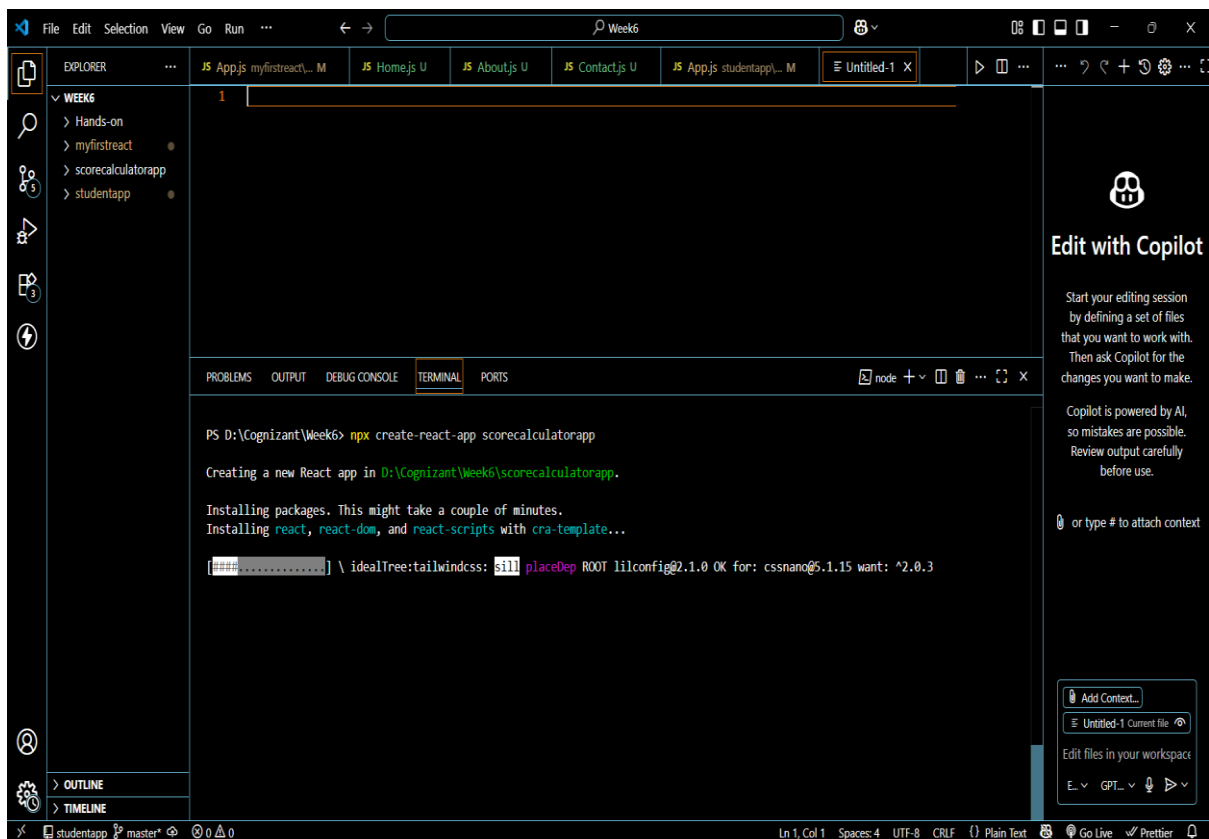# 3. ReactJS-HOL

Create scorecalculatorapp with a Functional Component

Step 1: Create the React App
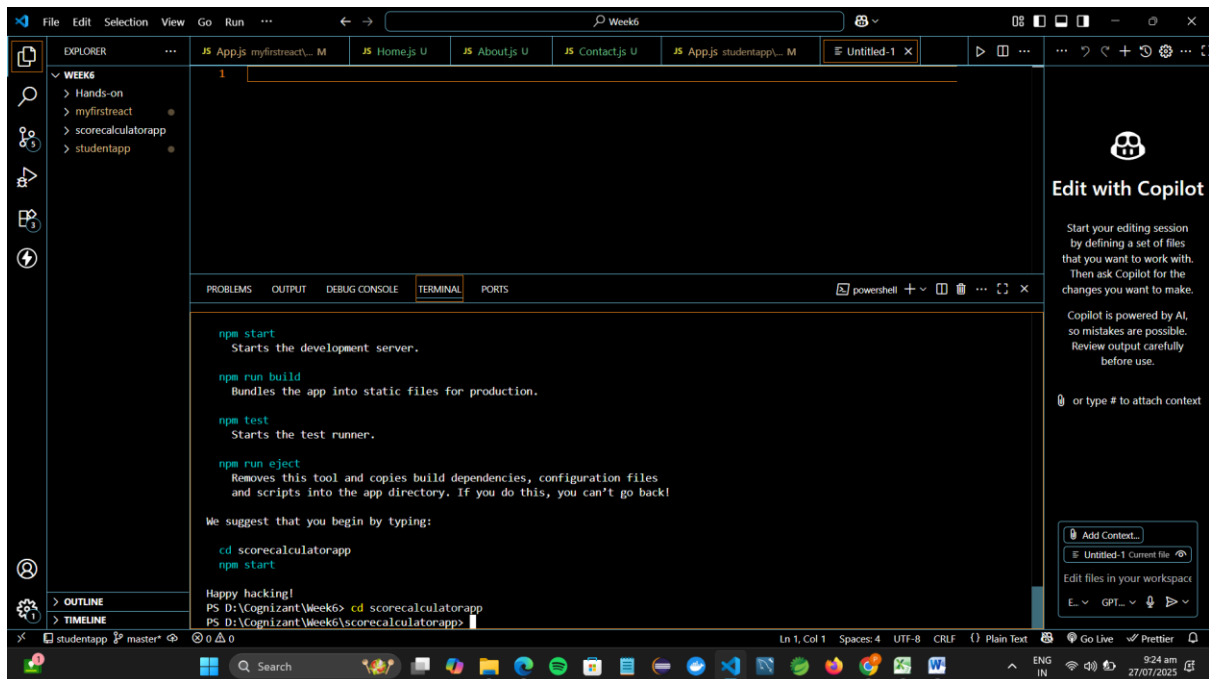
1. Open **VS Code**
2. Open a new folder for the project
3. Open Terminal → Terminal → New Terminal
4. Run:

   npx create-react-app scorecalculatorapp

Step 2: Move Into the Project Directory
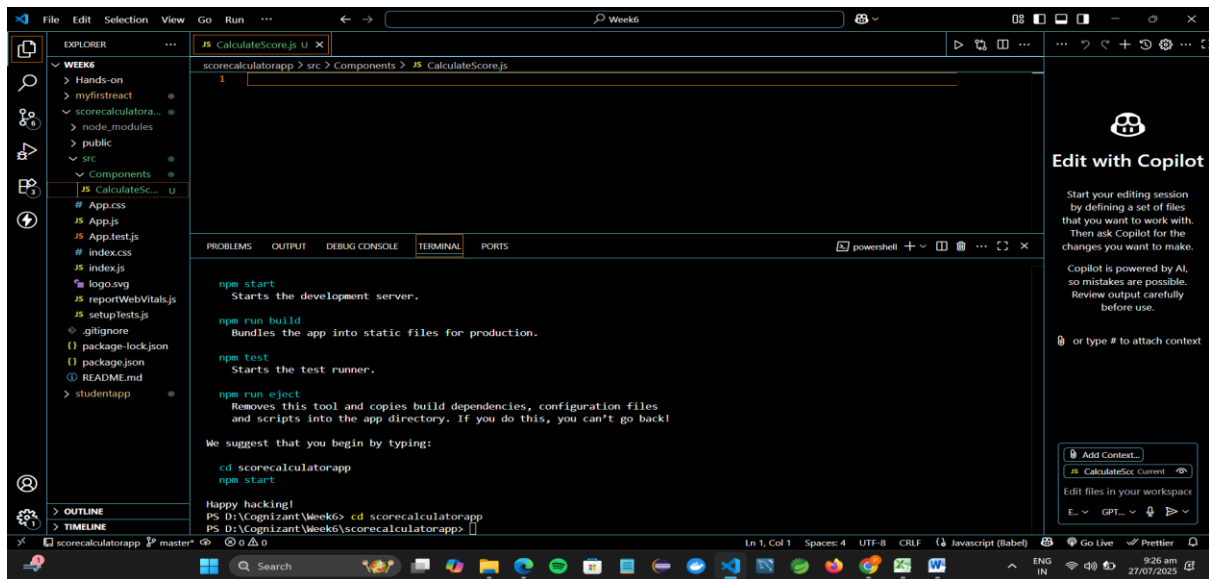
cd scorecalculatorapp

Step 3: Create Functional Component CalculateScore

1. Inside src, create a folder named:

   Components

2. Inside Components, create a file:
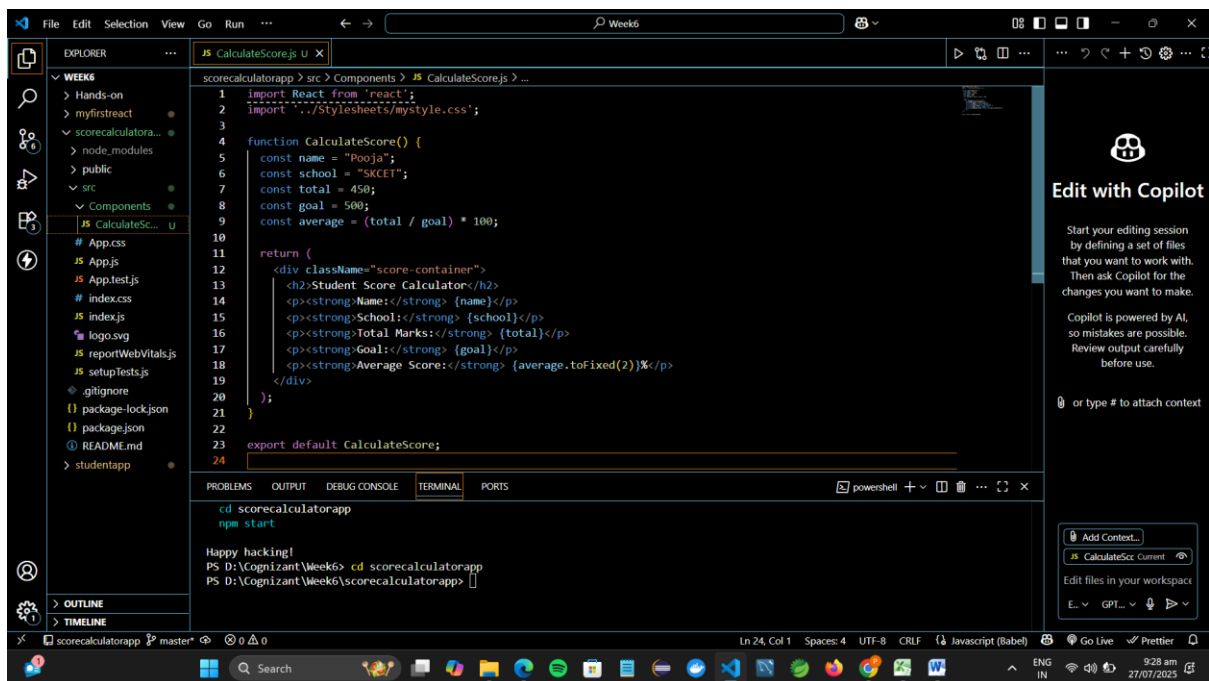
   CalculateScore.js

3. Add the following code to CalculateScore.js:

```
import React from 'react';
import '../Stylesheets/mystyle.css';

function CalculateScore() {
  const name = "Pooja";
  const school = "SKCET";
  const total = 450;
  const goal = 500;
  const average = (total / goal) * 100;

  return (
    <div className="score-container">
      <h2>Student Score Calculator</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Marks:</strong> {total}</p>
      <p><strong>Goal:</strong> {goal}</p>
      <p><strong>Average Score:</strong>
{average.toFixed(2)}%</p>
    </div>
  );
}
```
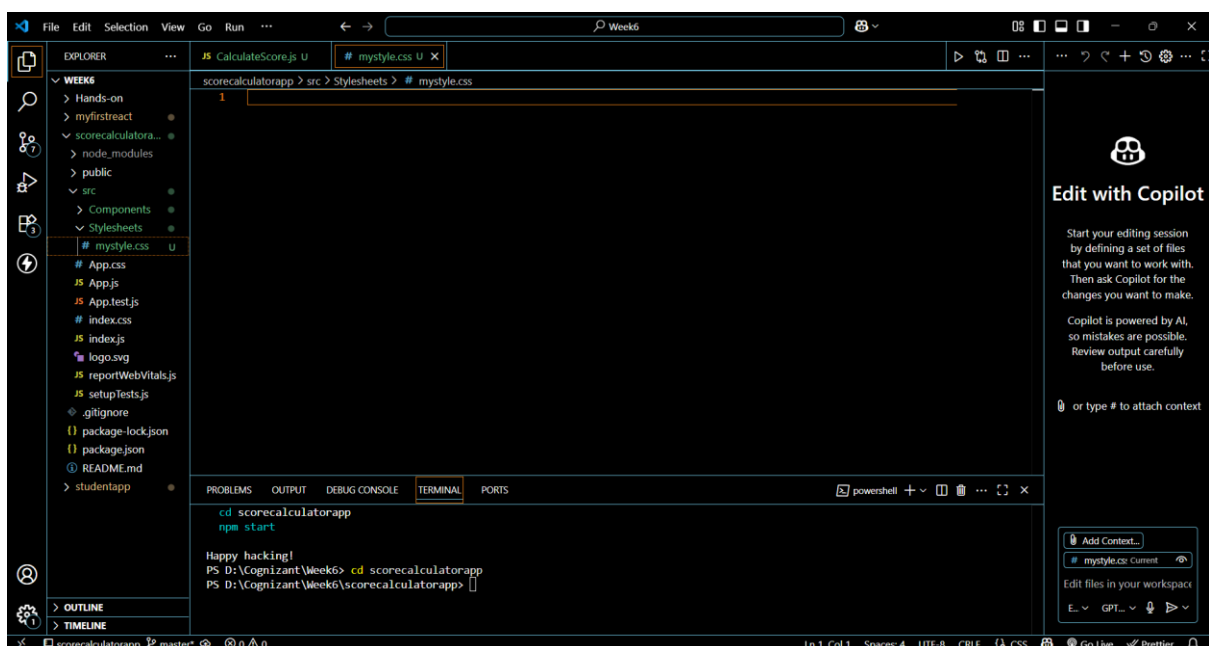
export default CalculateScore;

Step 4: Add Styling with mystyle.css

1. Inside src, create a folder:

   Stylesheets

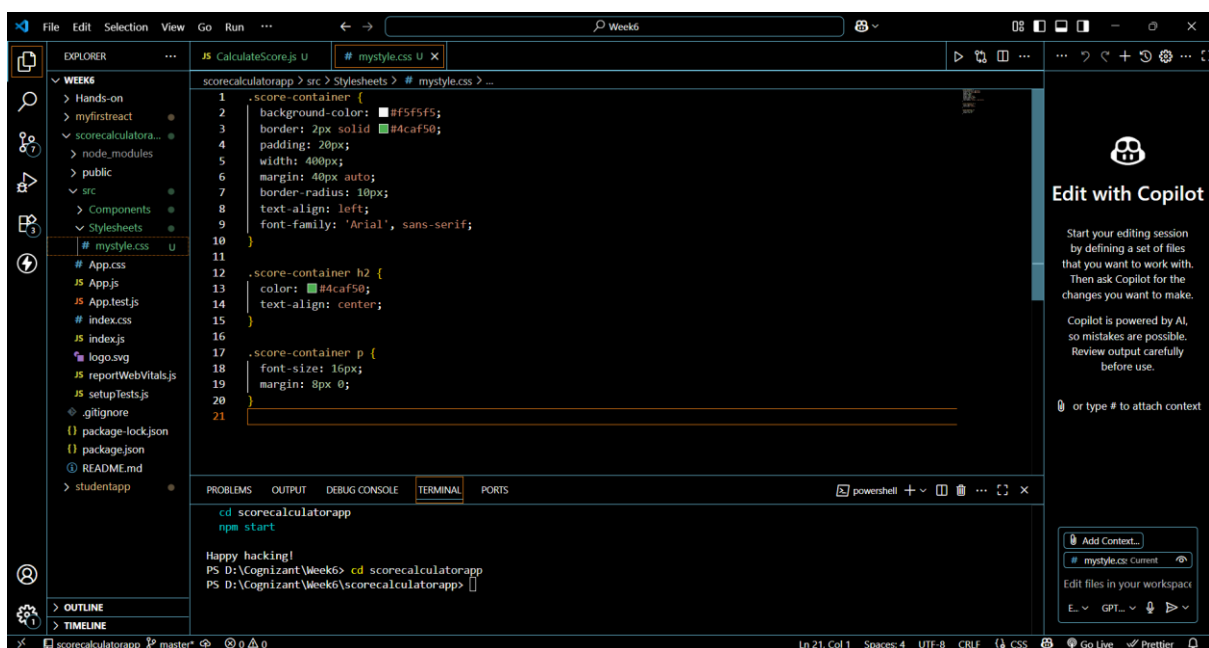2. Inside Stylesheets, create a file:

   mystyle.css

3. Add some styles:

```css
.score-container {
  background-color: #f5f5f5;
  border: 2px solid #4caf50;
  padding: 20px;
  width: 400px;
  margin: 40px auto;
  border-radius: 10px;
  text-align: left;
  font-family: 'Arial', sans-serif;
}

.score-container h2 {
  color: #4caf50;
  text-align: center;
}

.score-container p {
  font-size: 16px;
  margin: 8px 0;
}
```
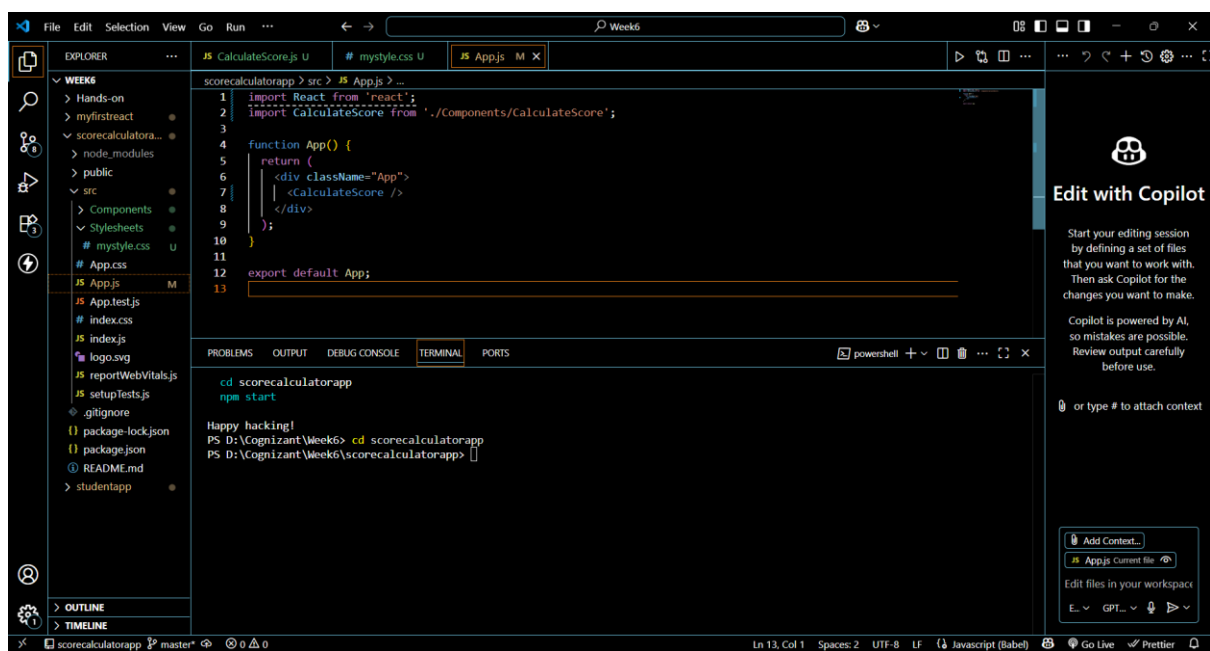
Step 5: Edit App.js to Render the Component

In src/App.js, replace everything with:

```
import React from 'react';
import CalculateScore from './Components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore />
    </div>
  );
}

export default App;
```
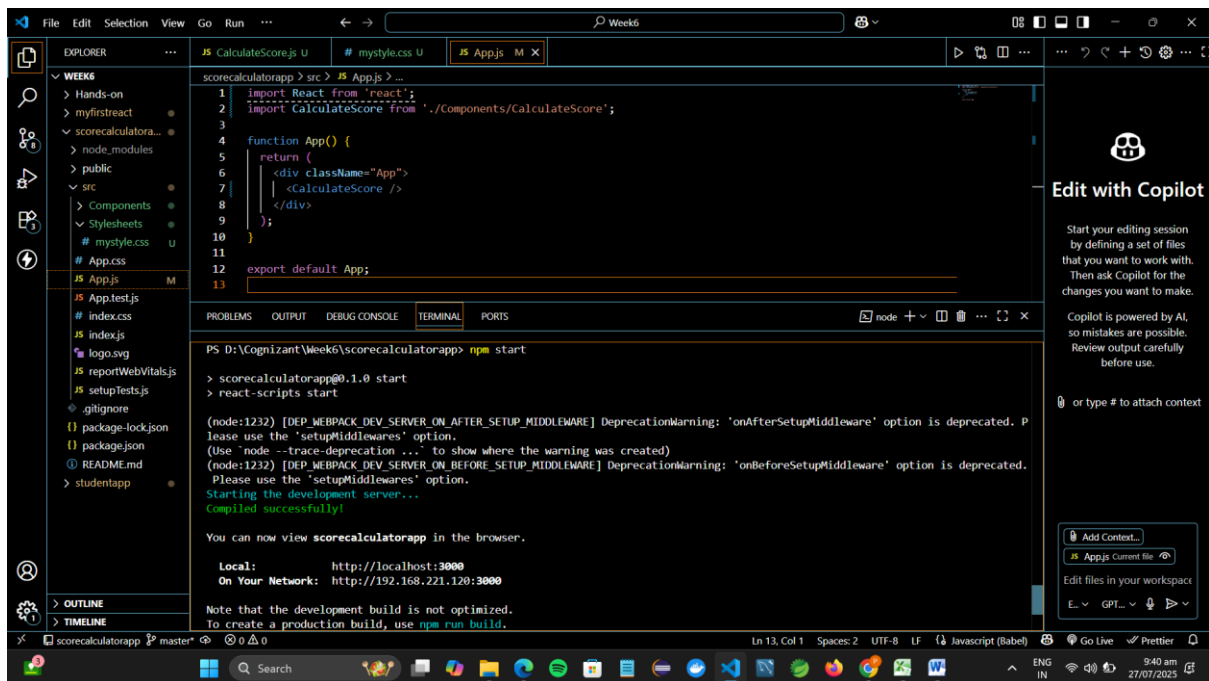

Step 6: Run the App

In terminal (inside scorecalculatorapp folder), run:

npm start

Step 7: View in Browser
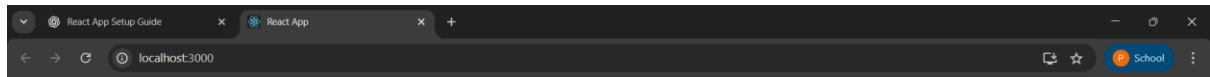
Open a browser and visit:

http://localhost:3000

You should see a styled box showing:

- Student name
- School name
- Total marks
- Goal
- Calculated average in %

Result: