3.ReactJS-Handson

Install create-react-app and creating the React app and navigating into the app folder:

```
PS C:\Users\KIIT> npx create-react-app scorecalculatorapp

Creating a new React app in C:\Users\KIIT\scorecalculatorapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1324 packages in 57s

269 packages are looking for funding
  run `npm fund` for details
Initialized a git repository.

Installing template dependencies using npm...
added 18 packages, and changed 1 package in 10s

269 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1342 packages in 7s

269 packages are looking for funding
  run `npm fund` for details

9 vulnerabilities (3 moderate, 6 high)

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

Created git commit.

Success! Created scorecalculatorapp at C:\Users\KIIT\scorecalculatorapp
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd scorecalculatorapp
  npm start

Happy hacking!
PS C:\Users\KIIT> cd scorecalculatorapp
PS C:\Users\KIIT\scorecalculatorapp> code .
```

Code in src/components/CalculateScore.js

```
src > Components > JS CalculateScore.js > ...
1    import React from 'react';
2    import '../Stylesheets/mystyle.css';
3
4    function CalculateScore(props) {
5      const { name, school, total, goal } = props;
6      const average = (total / goal).toFixed(2);
7
8      return (
9        <div className="score-container">
10         <h2>Student Score Report</h2>
11         <p><strong>Name:</strong> {name}</p>
12         <p><strong>School:</strong> {school}</p>
13         <p><strong>Total Marks:</strong> {total}</p>
14         <p><strong>Goal (Subjects):</strong> {goal}</p>
15         <p><strong>Average Score:</strong> {average}</p>
16       </div>
17     );
18   }
19
20   export default CalculateScore;
```
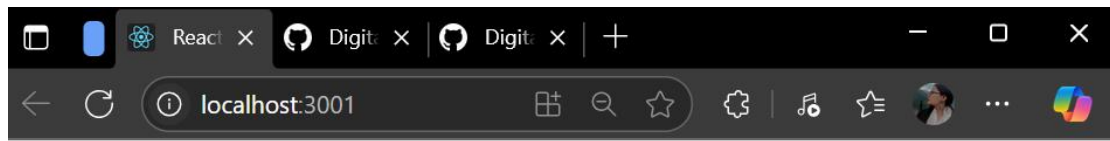
Code in src/StyleSheets/mystyle.css

```css
src > Stylesheets > # mystyle.css > ...
  1    .score-container {
  2      margin: 30px auto;
  3      padding: 20px;
  4      max-width: 500px;
  5      background-color: #f2f8ff;
  6      border: 2px solid #007acc;
  7      border-radius: 12px;
  8      font-family: 'Segoe UI', sans-serif;
  9      box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
 10    }
 11
 12    .score-container h2 {
 13      color: #007acc;
 14      margin-bottom: 15px;
 15    }
 16
 17    .score-container p {
 18      font-size: 16px;
 19      margin: 8px 0;
 20    }
```

Code in App.js

```js
src > JS App.js > ...
  1   import React from 'react';
  2   import './App.css';
  3   import CalculateScore from './Components/CalculateScore';
  4
  5   function App() {
  6     return (
  7       <div className="App">
  8         <CalculateScore
  9           name="Amrita Kumari"
 10           school="KIIT University"
 11           total={470}
 12           goal={5}
 13         />
 14       </div>
 15     );
 16   }
 17
 18   export default App;
```

Output

Student Score Report

Name: Amrita Kumari

School: KIIT University

Total Marks: 470

Goal (Subjects): 5

Average Score: 94.00