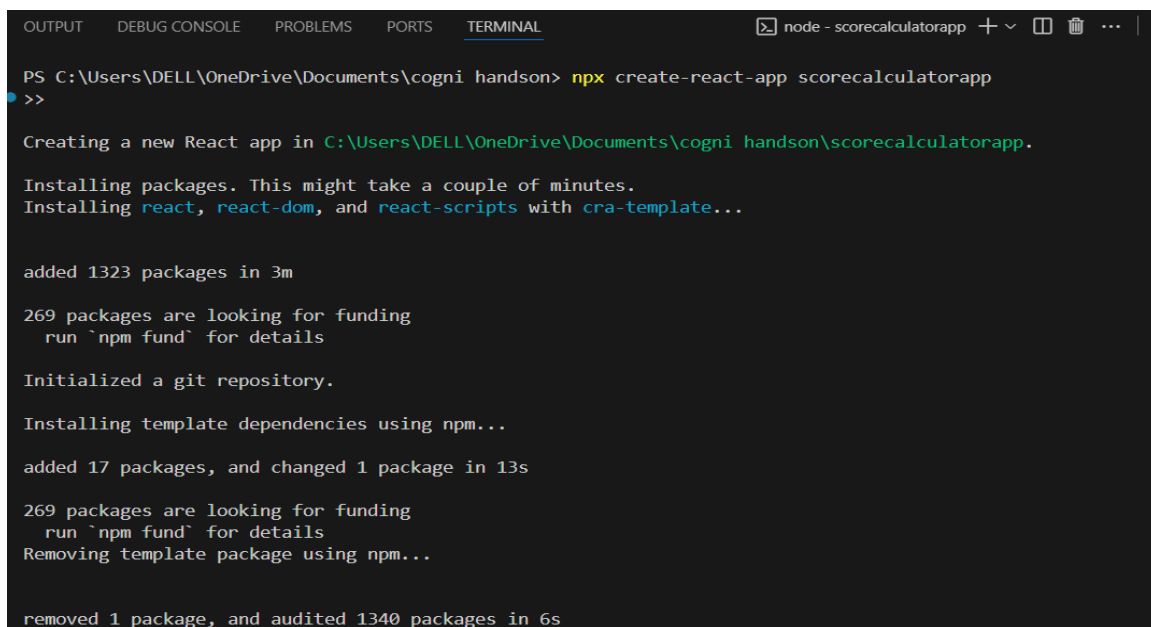


**Name:- Vidya CS**

**TRACK: JAVA FSE**

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named “CalculateScore” which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

**1)Create a React project named “scorecalculatorapp” type the following command in terminal of Visual studio:**



```
node - scorecalculatorapp + v [icon] [icon] ... |
OUTPUT  DEBUG CONSOLE  PROBLEMS  PORTS  TERMINAL
PS C:\Users\DELL\OneDrive\Documents\cogni handson> npx create-react-app scorecalculatorapp
>>

Creating a new React app in C:\Users\DELL\OneDrive\Documents\cogni handson\scorecalculatorapp.

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

added 1323 packages in 3m

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

Initialized a git repository.

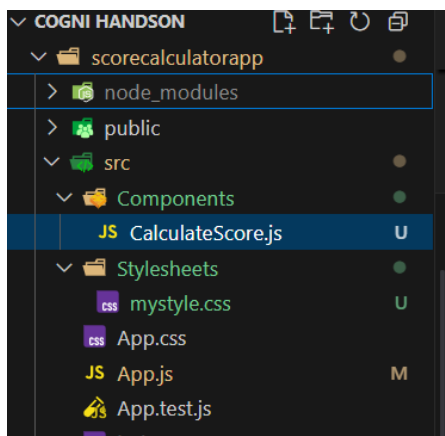
Installing template dependencies using npm...

added 17 packages, and changed 1 package in 13s

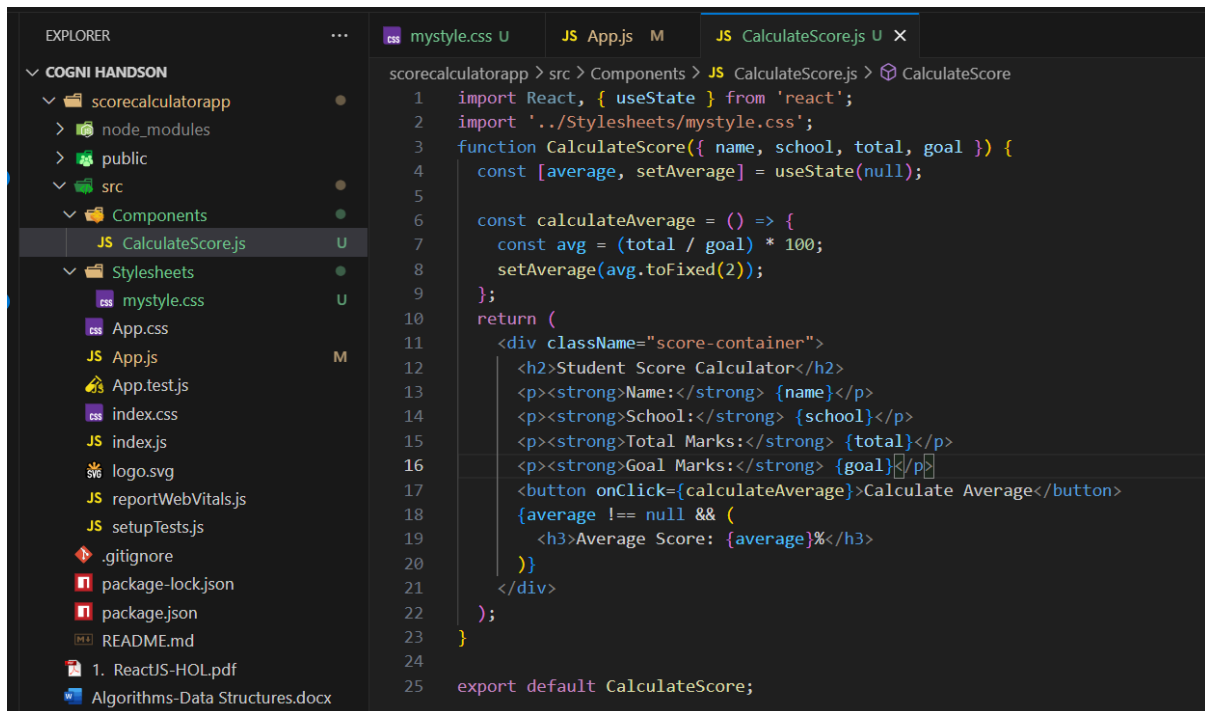
269 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1340 packages in 6s
```

**2)Create a new folder under Src folder with the name “Components”. Add a new file named “CalculateScore.js”**

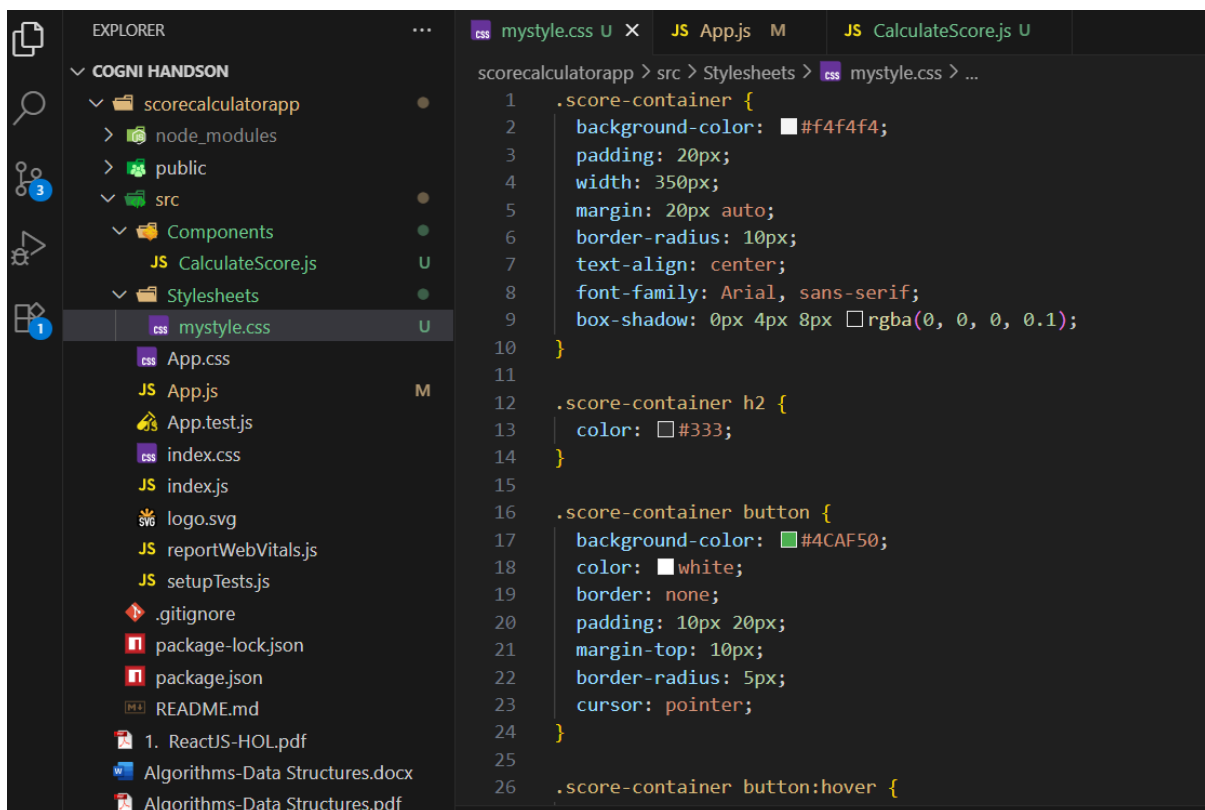


### 3)Code in CalculateScore.js



```
1 import React, { useState } from 'react';
2 import '../Stylesheets/mystyle.css';
3 function CalculateScore({ name, school, total, goal }) {
4   const [average, setAverage] = useState(null);
5
6   const calculateAverage = () => {
7     const avg = (total / goal) * 100;
8     setAverage(avg.toFixed(2));
9   };
10  return (
11    <div className="score-container">
12      <h2>Student Score Calculator</h2>
13      <p><strong>Name:</strong> {name}</p>
14      <p><strong>School:</strong> {school}</p>
15      <p><strong>Total Marks:</strong> {total}</p>
16      <p><strong>Goal Marks:</strong> {goal}</p>
17      <button onClick={calculateAverage}>Calculate Average</button>
18      {average !== null && (
19        <h3>Average Score: {average}%</h3>
20      )}
21    </div>
22  );
23 }
24
25 export default CalculateScore;
```

### 4)Create a Folder named Stylesheets and add a file named “mystyle.css” in order to add some styles to the components:



```
1 .score-container {
2   background-color: #f4f4f4;
3   padding: 20px;
4   width: 350px;
5   margin: 20px auto;
6   border-radius: 10px;
7   text-align: center;
8   font-family: Arial, sans-serif;
9   box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
10 }
11
12 .score-container h2 {
13   color: #333;
14 }
15
16 .score-container button {
17   background-color: #4CAF50;
18   color: white;
19   border: none;
20   padding: 10px 20px;
21   margin-top: 10px;
22   border-radius: 5px;
23   cursor: pointer;
24 }
25
26 .score-container button:hover {
```

5) Edit the App.js to invoke the CalculateScore functional component as follows:

```
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="Alice"
10        school="Dayananda Sagar Academy of Technology and Management"
11        total={450}
12        goal={500}
13      />
14    </div>
15  );
16 }
17
18 export default App;
```

6) In command Prompt, navigate into scorecalculatorapp and execute the code by typing the following command:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Compiled successfully!

You can now view scorecalculatorapp in the browser.

Local:      http://localhost:3000
On Your Network:  http://192.168.167.171:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

7) Open browser and type “localhost:3000” in the address bar

