**3. Score Calculator React Application**

**Objective:**

To develop a React application named scorecalculatorapp that calculates and displays average score of a student. The app should display Name, School, Total Marks, Goal and calculated score percentage.

**Software Requirements:**

* Node.js and npm
* Visual Studio Code
* Web browser

**Steps to implement scorecalculatorapp:**

Step1: Create a new React project.

Open the command prompt and execute the below command to create new react app.

i.e.,

|  |
| --- |
| npx create-react-app scorecalculatorapp |

Step2: Create Components Folder.

Navigate to scorecalculatorapp/src and create components folder.

Inside the src/components create CalculateScore file.

i.e., CalculateScore.js

|  |
| --- |
| import './Stylesheets/mystyle.css'  const percentToDecimal = (decimal) => {  return (decimal.toFixed(2) + '%')  }  const calcScore = (total, goal) => {  return percentToDecimal(total / goal)  }  export const CalculateScore = ({ Name, School, total, goal }) => (  <div className="formatstyle">  <h1><font color="Brown">Student Details:</font></h1>  <div className="Name">  <b><span> Name: </span></b>  <span>{Name}</span>  </div>  <div className="School">  <b><span> School: </span></b>  <span>{School}</span>  </div>  <div className="Total">  <b><span> Total: </span></b>  <span>{total}</span>  <span>Marks</span>  </div>  <div className="Score">  <b>Score:</b>  <span>{calcScore(total, goal)}</span>  </div>  </div>  );  export default CalculateScore; |

Step3: Add styles to the existing application.

Inside src folder create Stylesheets folder.

And in src/Stylesheets folder create mystyle.css and add following styles:

|  |
| --- |
| .Name {  font-weight: 300;  color: blue;  }  .School {  color: crimson;  }  .Total {  color: darkmagenta;  }  .formatstyle {  text-align: center;  font-size: large;  }  .Score {  color: forestgreen;  } |

Step4: Modify the App.js

i.e.,

|  |
| --- |
| import { CalculateScore } from './components/CalculateScore';  function App() {  return (  <div>  <CalculateScore  Name="Steeve"  School="DNV Public School"  Total = {284}  Goal = {3}  />  </div>  );  }  export default App; |

Step5: Run the React Application.

Open the terminal and run the below command to start the development server at port 3001.

|  |
| --- |
| npm start |

Expected output:

