**React Lab: Score Calculator App**

**In this hands-on lab, you will learn how to:**

• Create a function component  
• Apply style to components  
• Render a component

**Prerequisites**

• Node.js  
• NPM  
• Visual Studio Code

**Estimated time to complete this lab: 30 minutes**

**Lab Instructions**

**Step 1: Create a React App**

Open the **Visual Studio Code terminal** and run:

npx create-react-app scorecalculatorapp

**Step 2: Create a Component Folder and Add CalculateScore.js**

Inside the src folder, create a new folder named **Components**, and inside it create a file named CalculateScore.js.

Paste the following code in CalculateScore.js:

import '../Stylesheets/mystyle.css';

const percentToDecimal = (decimal) => {

    // This function formats a number to two decimal places and adds a '%' sign.

    return (decimal.toFixed(2) + '%');

}

const calcScore = (total, goal) => {

    // This function calculates the average and passes it to be formatted.

    // For example, with total=284 and goal=3, the result is (284 / 3) = 94.67%.

    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>Marks

        </div>

        <div className="Score">

            <b>Score:</b>

            <span>

                {calcScore(

                    total,

                    goal

                )}

            </span>

        </div>

    </div>

);

**Step 3: Create a Folder Named Stylesheets and Add a CSS File**

Inside the src folder, create a new folder named **Stylesheets**, and inside it create a file called mystyle.css.

/\* Styles for the main student data container 📋 \*/

.formatstyle {

  max-width: 500px;

  margin: 30px auto; /\* Centers the container on the page \*/

  padding: 25px;

  border: 1px solid #d1d1d1;

  border-radius: 12px;

  box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);

  background-color: #ffffff;

  font-size: large;

  text-align: center;

  font-family: sans-serif;

}

/\* Adds line spacing between each data field \*/

.Name, .School, .Total, .Score {

  padding: 8px 0; /\* Adds 8px of padding top and bottom \*/

}

/\* Individual styles for each data field \*/

.Name {

  font-weight: 300;

  color: blue;

}

.School {

  color: crimson;

}

.Total {

  color: darkmagenta;

}

.Score {

  color: forestgreen;

  font-weight: bold;

}

**Step 4: Edit App.js to Render CalculateScore Component**

Go to src/App.js and replace its content with the following:

import React from 'react';

import { CalculateScore } from './Components/CalculateScore'; // Corrected import path

function App() {

  return (

    <div>

      <CalculateScore

        Name={"Steeve"}

        School={"DNV Public School"}

        total={284}

        goal={3}

      />

    </div>

  );

}

export default App;

**Step 5: Run the React App**

In the terminal, make sure you're inside the scorecalculatorapp folder and run:

npm start

**Step 6: View the Application in Browser**

Open your browser and navigate to:

http://localhost:3000

You should see the **Score Calculator** displaying the student's name, school, marks, and the calculated average score with applied styles.

