

WEEK 6(React)

1. Set up a react environment and Use create-react-app

```
Windows PowerShell
Compiled successfully!

You can now view myfirstreact in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.56.1:3000

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

webpack compiled successfully
```

App.js:

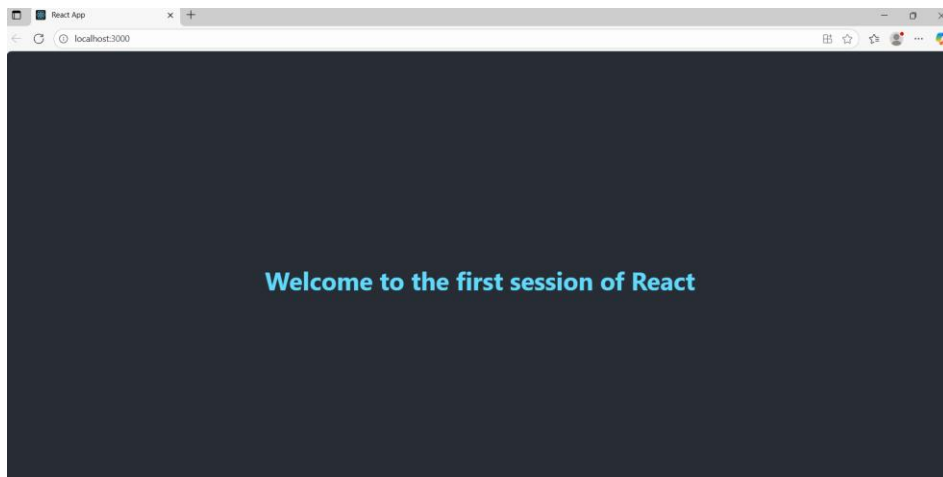
```
1  import React from 'react';
2  import './App.css';
3
4  function App() {
5    return (
6      <div className="App">
7        <h1>Welcome to the first session of React</h1>
8      </div>
9    );
10 }
11
12 export default App;
```

App.css

```
.App {
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
  margin: 0;
  background-color: #282c34;
}

.App h1 {
  color: #61dafb;
  font-size: 2.5rem;
  text-align: center;
}
```

Output:



2. Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message “Welcome to the Home page of Student Management Portal”. Create another component named About and display the Message “Welcome to the About page of the Student Management Portal”. Create a third component named Contact and display the Message “Welcome to the Contact page of the Student Management Portal”. Call all the three components.

About.js

```
import React from 'react';

export function About() {
  return (
    <div>
      <h2>Welcome to the About page of the Student Management portal</h2>
    </div>
  );
}
```

Contact.js

```
import React from 'react';

export function Contact() {
  return (
    <div>
      <h2>Welcome to the Contact page of the student Mangement portal</h2>
    </div>
  );
}
```

Home.js

```
import React from 'react';

export function Home() {
  return (
    <div>
      <h2>Welcome to the home page of the Student mangement portal</h2>
    </div>
  );
}
```

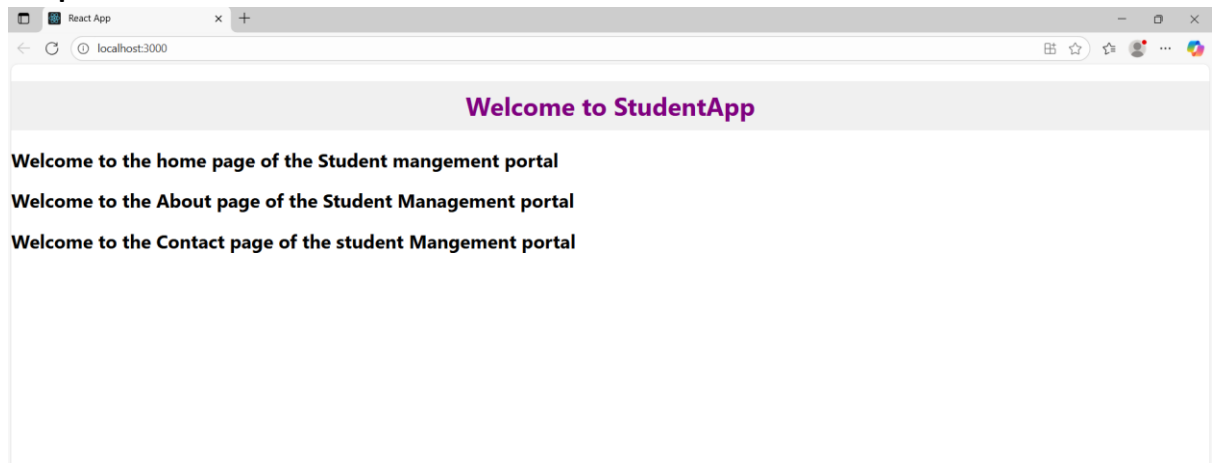
App.js

```
import './App.css';
import { Home } from './Components/Home';
import { About } from './Components/About';
import { Contact } from './Components/Contact';

function App() {
  return (
    <div className="container">
      <h1 style={{ textAlign: 'center', color: 'purple', backgroundColor: '■#f0f0f0', padding: '10px' }}>
        Welcome to StudentApp
      </h1>
      <Home />
      <About />
      <Contact />
    </div>
  );
}

export default App;
```

Output:



3. 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.

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, College, 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="College">
      <b><span>College:</span></b>
      <span>{College}</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>
);
```

mystyle.css

```
.Name
{
  font-weight:300;
  color:blue;
}
.College
{
  color:crimson;
}
.Total
{
  color:darkmagenta;
}
.formatstyle
{
  text-align:center;
  font-size:large;
}
.score
{
  color:forestgreen;
}
```

App.js

```
import './StyleSheets/mystyle.css';
import { Calculatescore } from './Components/Calculatescore';

function App() {
  return (
    <div>
      <Calculatescore
        Name="Stuti"
        College="C V Raman Global University"
        total={284}
        goal={300}
      />
    </div>
  );
}

export default App;
```

Output:

