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WEEK-6

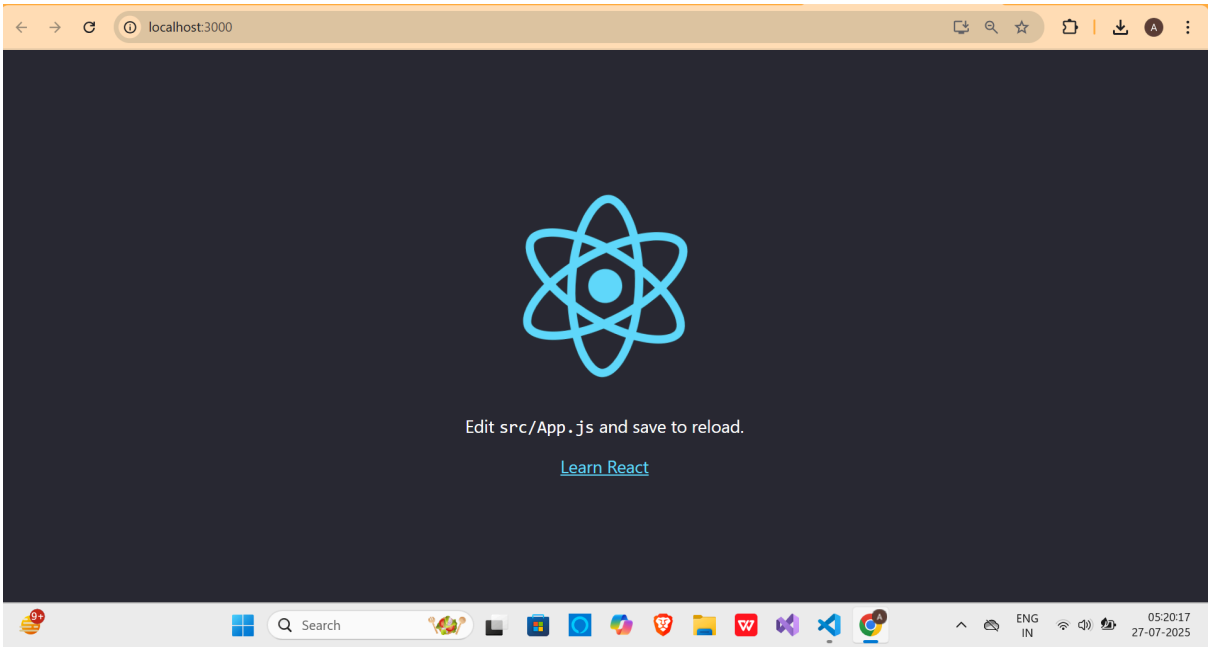
1. My First React App (`myfirstreact`)

Objective

Print “Welcome to the first session of React” as a heading.

```
function App() {
  return (
    <div className="App">
      <h1>Welcome to the first session of React</h1>
    </div>
  );
}
export default App;
```

?? Output:



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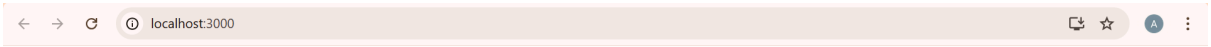
2. Student Management Portal (`StudentApp`)

Objective

Create and display 3 components: Home, About, Contact.

```
function Home() {
  return <h1>Welcome to the Home page of Student Management Portal</h1>;
}
export default Home;

function About() {
  return <h1>Welcome to the About page of Student Management Portal</h1>;
}
export default About;

function Contact() {
  return <h1>Welcome to the Contact page of Student Management Portal</h1>;
}
export default Contact;

import Home from './Home';
import About from './About';
import Contact from './Contact';

function App() {
  return (
    <div className="App">
      <Home />
      <About />
      <Contact />
    </div>
  );
}
export default App;
```

?? Output:



Welcome to the Home page of Student Management Portal

Welcome to the About page of the Student Management Portal

Welcome to the Contact page of the Student Management Portal

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3. Score Calculator (`scorecalculatorapp`)

Objective

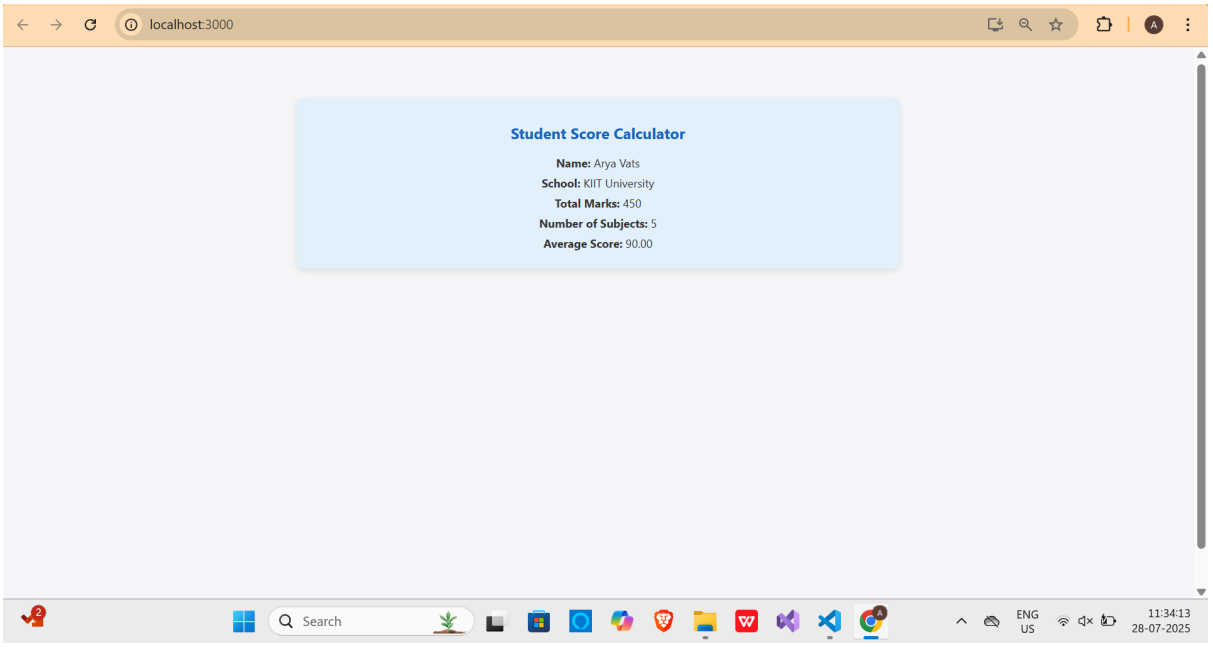
Create a functional component that takes props and calculates the average score.

```
import './styles/mystyle.css';
function CalculateScore(props) {
  const average = props.total / props.goal;
  return (
    <div className="score-card">
      <h2>Student Score Calculator</h2>
      <p>Name: {props.name}</p>
      <p>School: {props.school}</p>
      <p>Total: {props.total}</p>
      <p>Subjects: {props.goal}</p>
      <p>Average Score: {average.toFixed(2)}</p>
    </div>
  );
}
export default CalculateScore;

import CalculateScore from './Components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore name="Arya Vats" school="KIIT University" total={450}
goal={5} />
```

```
    </div>
  );
}
export default App;
```

?? Output:

Styled score card showing Arya Vats's average score as 90.00.



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4. Blog App (`blogapp`)

Objective

Use class component, componentDidMount, and componentDidCatch to fetch and display blog posts.

```
class Post {
  constructor(id, title, body) {
    this.id = id;
    this.title = title;
    this.body = body;
  }
}
export default Post;

import React, { Component } from 'react';
import Post from './Post';

class Posts extends Component {
```

```
  constructor(props) {
    super(props);
    this.state = { posts: [], hasError: false };
  }

  async loadPosts() {
    try {
      const response = await
fetch('https://jsonplaceholder.typicode.com/posts');
      const data = await response.json();
      const postList = data.map(post => new Post(post.id, post.title,
post.body));
      this.setState({ posts: postList });
    } catch (error) {
      this.setState({ hasError: true });
    }
  }

  componentDidMount() {
    this.loadPosts();
  }

  componentDidCatch(error, info) {
    alert("An error occurred while loading posts.");
  }

  render() {
    if (this.state.hasError) {
      return <h2>Something went wrong.</h2>;
    }
    return (
      <div>
        <h1>Blog Posts</h1>
        {this.state.posts.map(post => (
          <div key={post.id}>
            <h2>{post.title}</h2>
            <p>{post.body}</p>
            <hr />
          </div>
        ))}
      </div>
    );
  }
}
export default Posts;

import Posts from './Posts';

function App() {
  return (
    <div className="App">
      <Posts />
    </div>
```

```
  );
}
export default App;
```

?? Output:

Posts loaded dynamically from API and displayed with title and content.

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5. CSS Module Styling (`cohorttracker`)

Objective

Use a CSS Module to style cohort detail components.

```
/* CohortDetails.module.css */
.box {
  width: 300px;
  display: inline-block;
  margin: 10px;
  padding: 10px 20px;
  border: 1px solid black;
  border-radius: 10px;
}
dt {
  font-weight: 500;
}

// CohortDetails.js
import styles from './CohortDetails.module.css';

function CohortDetails({ cohort }) {
```

```
  return (
    <div className={styles.box}>
      <h3 style={{ color: cohort.status === 'ongoing' ? 'green' : 'blue' }}>
        {cohort.name}
      </h3>
      <dl>
        <dt>Status</dt>
        <dd>{cohort.status}</dd>
        <dt>Participants</dt>
        <dd>{cohort.participants}</dd>
      </dl>
    </div>
  );
}
export default CohortDetails;
```

Output:

A colored, styled cohort info box with conditional heading color (green/blue).