1)

CODE:

```
import React from 'react';

function App() {
  return (
    <div>
      <h1>Welcome to the first session of React</h1>
    </div>
  );
}

export default App;
```

OUTPUT:

2)

CODE:

```
import React, { Component } from 'react';

class Home extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Home page of Student Management Portal</h2>
      </div>
    );
  }
}

export default Home;

import React, { Component } from 'react';

class Contact extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Contact page of the Student Management Portal</h2>
      </div>
    );
  }
}

export default Contact;
```
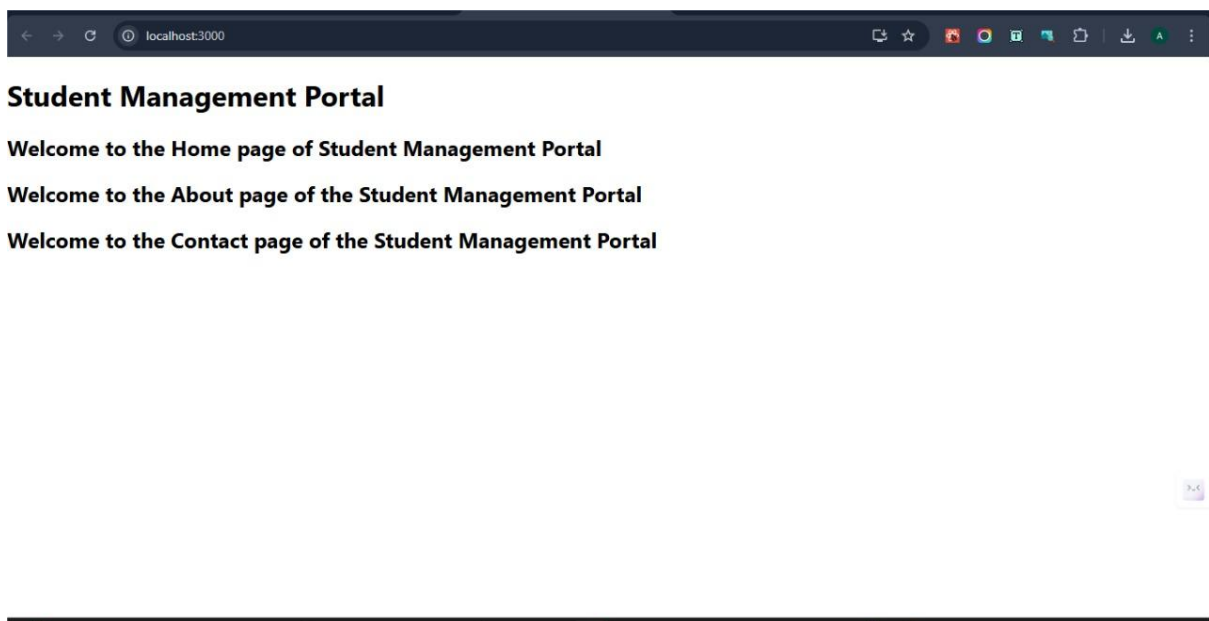
```
import React, { Component } from 'react';

class About extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the About page of the Student Management Portal</h2>
      </div>
    );
  }
}

export default About;
```

OUTPUT:

Student Management Portal

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

3)

CODE:

```
import React from 'react';
import '../Stylesheets/mystyle.css';


function CalculateScore(props) {
  const { name, school, total, goal } = props;
  const average = total / goal;


  return (
    <div className="score-card">
      <h2>Student Score Report</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Score:</strong> {total}</p>
      <p><strong>Goal (Subjects):</strong> {goal}</p>
      <p><strong>Average Score:</strong> {average.toFixed(2)}</p>
    </div>
  );
}


export default CalculateScore;
```


CSS:

```
.score-card {
  border: 2px solid #4CAF50;
  padding: 20px;
  margin: 20px;
  border-radius: 10px;
```

```css
  background-color: #f0fdf4;

  box-shadow: 2px 2px 8px rgba(0, 0, 0, 0.1);

}


.score-card h2 {

  color: #388e3c;

}


.score-card p {

  font-size: 16px;

  line-height: 1.6;

}
```
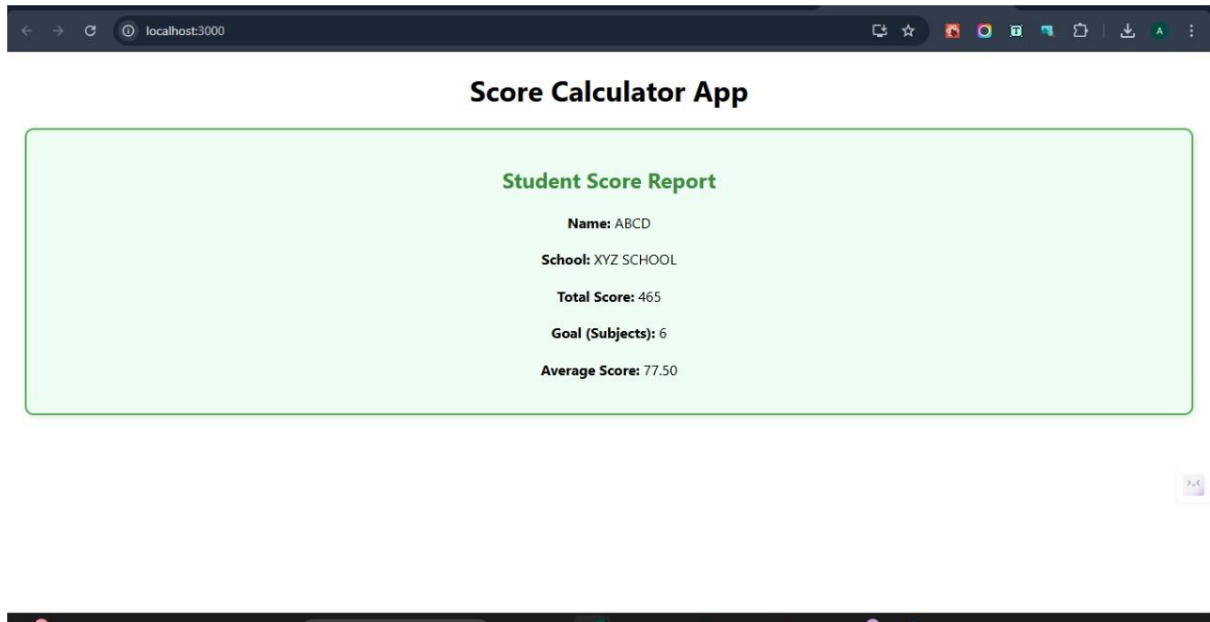
```jsx
import React from 'react';

import './App.css';

import CalculateScore from './Components/CalculateScore';


function App() {

  return (

    <div className="App">

      <h1>Score Calculator App</h1>

      <CalculateScore

        name="ABCD"

        school="XYZ SCHOOL"

        total={465}

        goal={6}

      />

    </div>

  ); } export default App;
```

OUTPUT:

Score Calculator App

Student Score Report

Name: ABCD

School: XYZ SCHOOL

Total Score: 465

Goal (Subjects): 6

Average Score: 77.50

4)

Code

```javascript
// src/Post.js
import React from 'react';

class Post extends React.Component {
  render() {
    const { title, body } = this.props;
    return (
      <div style={{ border: '1px solid #ccc', padding: '10px', marginBottom: '10px' }}>
        <h3>{title}</h3>
        <p>{body}</p>
      </div>
    );
  }
}

export default Post;

// src/Posts.js
import React from 'react';
import Post from './Post';

class Posts extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      posts: [],
      hasError: false,
```

```javascript
    errorMessage: ''
  };
}


// 4. Method to load posts using Fetch API
loadPosts = async () => {
  try {
    const response = await fetch('https://jsonplaceholder.typicode.com/posts');
    const data = await response.json();
    this.setState({ posts: data });
  } catch (error) {
    this.setState({ hasError: true, errorMessage: error.message });
  }
};


// 5. componentDidMount to call loadPosts
componentDidMount() {
  this.loadPosts();
}


// 6. componentDidCatch to catch errors
componentDidCatch(error, info) {
  this.setState({ hasError: true, errorMessage: error.toString() });
  alert(`Error caught in component: ${error}`);
}


// 7. render method
render() {
  if (this.state.hasError) {
```

```jsx
    return <h2>Something went wrong: {this.state.errorMessage}</h2>;
    }


    return (
      <div>
        <h1>Blog Posts</h1>
        {this.state.posts.map(post => (
          <Post key={post.id} title={post.title} body={post.body} />
        ))}
      </div>
    );
  }
}


export default Posts;


// src/App.js
import React from 'react';
import './App.css';
import Posts from './Posts';


function App() {
  return (
    <div className="App">
      <Posts />
    </div>
  );
}
export default App;
```
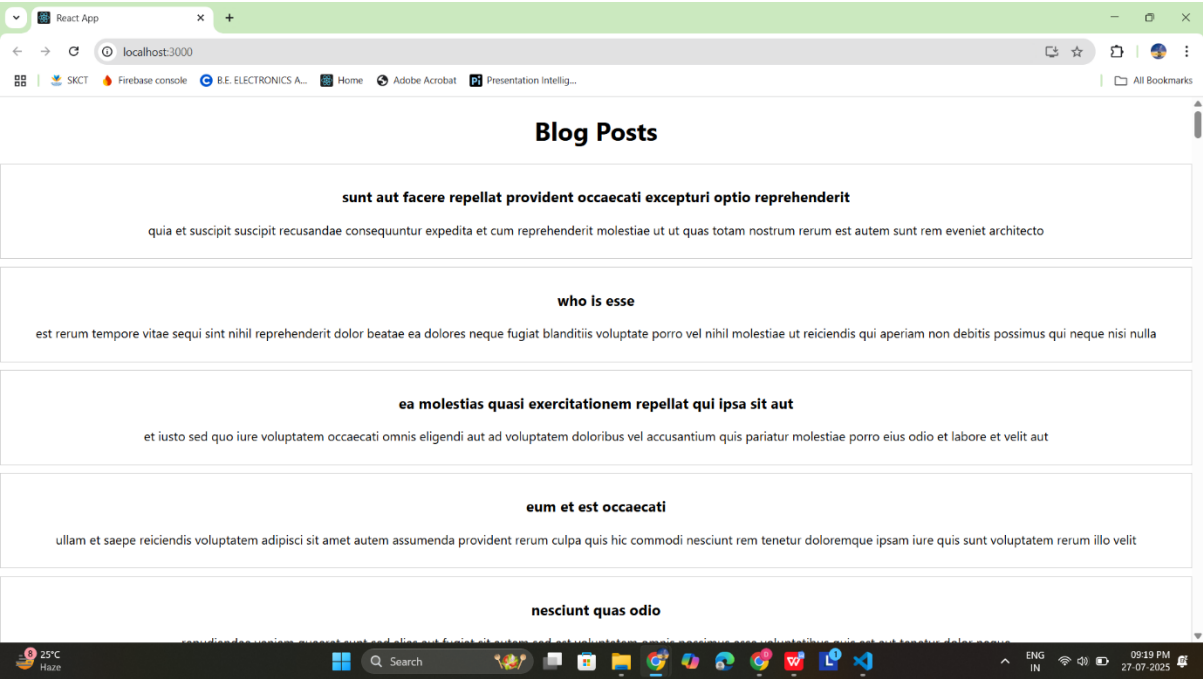
OUTPUT:

Blog Posts

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5)

CODE:

CohortDetails.js

```javascript
import React from 'react';
import styles from './CohortDetails.module.css';

function CohortDetails({ cohort }) {
  const isOngoing = cohort.currentStatus.toLowerCase() === 'ongoing';

  const titleStyle = {
    color: isOngoing ? 'green' : 'blue',
    fontWeight: 'bold',
  };

  return (
    <div className={styles.box}>
      <h3 style={titleStyle}>
        {cohort.cohortCode} - {cohort.technology}
      </h3>
      <dl>
        <dt>Started On</dt>
        <dd>{cohort.startDate}</dd>

        <dt>Current Status</dt>
        <dd>{cohort.currentStatus}</dd>

        <dt>Coach</dt>
        <dd>{cohort.coachName}</dd>
```

```
    <dt>Trainer</dt>

    <dd>{cohort.trainerName}</dd>

  </dl>

</div>

);

}


export default CohortDetails;
```

CSS:

```css
.box {
  width: 300px;

  display: inline-block;

  vertical-align: top;

  margin: 10px;

  padding: 10px 20px;

  border: 1px solid #ccc;

  border-radius: 10px;

  box-shadow: 0 1px 3px rgba(0, 0, 0, 0.1);
}


dt {
  font-weight: 500;

  margin-top: 10px;
}


dd {
```

```
  margin: 0 0 10px 0;
}
```

App.js

```javascript
import React from 'react';
import CohortDetails from './CohortDetails';
import { CohortsData } from './CohortData';

function App() {
  return (
    <div>
      <h2 style={{ paddingLeft: '10px' }}>Cohorts Details</h2>
      <div style={{ display: 'flex', flexWrap: 'wrap', gap: '10px', padding: '10px' }}>
        {CohortsData.map((cohort, index) => (
          <CohortDetails key={index} cohort={cohort} />
        ))}
      </div>
    </div>
  );
}

export default App;
```

OUTPUT:

Cohorts Details

INTADMDF10 - .NET FSD	ADM21JF014 - Java FSD	CDBJF21025 - Java FSD
Started On 22-Feb-2022	**Started On** 10-Sep-2021	**Started On** 24-Dec-2021
Current Status Scheduled	**Current Status** Ongoing	**Current Status** Ongoing
Coach Aathma	**Coach** Apoorv	**Coach** Aathma
Trainer Jojo Jose	**Trainer** Elisa Smith	**Trainer** John Doe