

WEEK 6 JAVA FSE DN 4.0

EXERCISE 1: INSTALLATION

OUTPUT: installed

EXERCISE 2: STUDENT APP

Home.js

```
import React from 'react';
```

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

```
export default Home;
```

About.js

```
import React from 'react';
```

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

```
export default About;
```

Contact.js

```
import React from 'react';
```

```
class Contact extends React.Component {  
  render() {  
    return (  

```

```

    <div>
      <h2>Welcome to the Contact page of the Student Management Portal</h2>
    </div>
  );
}
}

export default Contact;

```

App.js

```

import React from 'react';
import Home from './Components/Home';
import About from './Components/About';
import Contact from './Components/Contact';

```

```

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

```

```

export default App;

```

EXERCISE 3: SCORE CALCULATOR APP

CalculatorScore.js

```

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

```

```

function CalculateScore(props) {
  const average = props.total / props.goal;

  return (
    <div className="container">
      <h2>Student Score Calculator</h2>
      <p><strong>Name:</strong> {props.name}</p>
      <p><strong>School:</strong> {props.school}</p>
      <p><strong>Total Score:</strong> {props.total}</p>
      <p><strong>Goal:</strong> {props.goal}</p>
      <p className="highlight"><strong>Average Score:</strong> {average.toFixed(2)}</p>
    </div>
  );
}

```

```
);  
}
```

```
export default CalculateScore;
```

Mystyle.css

```
.container {  
  border: 2px solid #007bff;  
  padding: 20px;  
  margin: 30px;  
  border-radius: 10px;  
  background-color: #f9f9f9;  
  width: 400px;  
  font-family: Arial, sans-serif;  
}
```

```
h2 {  
  color: #007bff;  
  margin-bottom: 15px;  
}
```

```
.highlight {  
  color: green;  
  font-size: 18px;  
  font-weight: bold;  
}
```

App.js

```
import React from 'react';  
import CalculateScore from './Components/CalculateScore';
```

```
function App() {  
  return (  
    <div className="App">  
      <CalculateScore  
        name="John Doe"  
        school="ABC Public School"  
        total={450}  
        goal={5}  
      />  
    </div>  
  );  
}
```

```
export default App;
```

EXERCISE 4: BUILDING A BLOG APP

Post.js

```
import React from 'react';
```

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

```
export default Post;
```

Posts.js

```
import React from 'react';
```

```
import Post from './Post';
```

```
class Posts extends React.Component {  
  constructor(props) {  
    super(props);  
    this.state = {  
      posts: [],  
      hasError: false  
    };  
  }  
  
  loadPosts() {  
    fetch('https://jsonplaceholder.typicode.com/posts')  
      .then(response => response.json())  
      .then(data => this.setState({ posts: data }))  
      .catch(error => {  
        this.setState({ hasError: true });  
        console.error("Error loading posts:", error);  
      });  
  }  
  
  componentDidMount() {  
    this.loadPosts();  
  }  
}
```

```

    }

    componentDidCatch(error, info) {
      alert("An error occurred while rendering posts.");
      console.error("Caught error:", error, info);
    }

    render() {
      return (
        <div>
          <h2>Blog Posts</h2>
          {this.state.posts.map(post => (
            <Post key={post.id} title={post.title} body={post.body} />
          ))}
        </div>
      );
    }
  }
}

```

```
export default Posts;
```

App.js

```

import React from 'react';
import Posts from './Posts';

```

```

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

```

```
export default App;
```

EXERCISE 5: STYLING REACT COMPONENTS USING CSS MODULES AND CONDITIONAL INLINE STYLING

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

function CohortDetails(props) {
  const { name, status, trainer, startDate, endDate } = props;
  const statusColor = status.toLowerCase() === 'ongoing' ? 'green' : 'blue';

  return (
    <div className={styles.box}>
      <h3 style={{ color: statusColor }}>{name}</h3>
      <dl>
        <dt>Status:</dt>
        <dd>{status}</dd>
        <dt>Trainer:</dt>
        <dd>{trainer}</dd>
        <dt>Start Date:</dt>
        <dd>{startDate}</dd>
        <dt>End Date:</dt>
        <dd>{endDate}</dd>
      </dl>
    </div>
  );
}
```

```
export default CohortDetails;
```

App.js

```
import React from 'react';
import CohortDetails from './CohortDetails';

function App() {
  return (
    <div className="App">
      <CohortDetails
        name="React FSE Cohort"
        status="Ongoing"
      />
    </div>
  );
}
```

```

    trainer="Mr. Ravi"
    startDate="2025-07-10"
    endDate="2025-08-30"
  />

  <CohortDetails
    name="Java Spring Boot Cohort"
    status="Completed"
    trainer="Ms. Priya"
    startDate="2025-05-01"
    endDate="2025-06-20"
  />
</div>
);
}

```

```
export default App;
```

EXERCISE 6: TRAINERS APP

Trainer.js

```

class Trainer {
  constructor(trainerId, name, email, phone, technology, skills) {
    this.trainerId = trainerId;
    this.name = name;
    this.email = email;
    this.phone = phone;
    this.technology = technology;
    this.skills = skills;
  }
}

```

```
export default Trainer;
```

TrainersMock.js

```
import Trainer from './Trainer';
```

```

const trainers = [
  new Trainer(1, 'Ravi Kumar', 'ravi.kumar@example.com', '9876543210', 'React', ['JSX', 'Hooks', 'Routing']),
  new Trainer(2, 'Priya Sharma', 'priya.sharma@example.com', '9876501234', 'Java', ['Spring Boot', 'Hibernate']),
  new Trainer(3, 'Arun Das', 'arun.das@example.com', '9876512345', 'Python', ['Flask', 'Django']),
];

```

```
export default trainers;
```

Home.js

```
import React from 'react';
```

```
function Home() {  
  return (  
    <div>  
      <h2>Welcome to Cognizant Academy - Trainers App</h2>  
      <p>This app helps you view trainer list and details</p>  
    </div>  
  );  
}
```

```
export default Home;
```

TrainerList.js

```
import React from 'react';
```

```
import { Link } from 'react-router-dom';
```

```
function TrainerList({ trainers }) {  
  return (  
    <div>  
      <h2>Trainers List</h2>  
      <ul>  
        {trainers.map(trainer => (  
          <li key={trainer.trainerId}>  
            <Link to={` /trainers/${trainer.trainerId}`}>{trainer.name}</Link>  
          </li>  
        ))}  
      </ul>  
    </div>  
  );  
}
```

```
export default TrainerList;
```

TrainerDetails.js

```
import React from 'react';
```

```
import { useParams } from 'react-router-dom';
```

```
import trainers from './TrainersMock';
```

```
function TrainerDetails() {  
  const { id } = useParams();
```



```

const trainer = trainers.find(t => t.trainerId === parseInt(id));

if (!trainer) return <p>Trainer not found</p>;

return (
  <div>
    <h2>{trainer.name}'s Details</h2>
    <p><strong>Email:</strong> {trainer.email}</p>
    <p><strong>Phone:</strong> {trainer.phone}</p>
    <p><strong>Technology:</strong> {trainer.technology}</p>
    <p><strong>Skills:</strong> {trainer.skills.join(', ')}</p>
  </div>
);
}

export default TrainerDetails;

```

App.js

```

import React from 'react';
import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';
import Home from './Home';
import TrainerList from './TrainerList';
import TrainerDetails from './TrainerDetails';
import trainers from './TrainersMock';

function App() {
  return (
    <BrowserRouter>
      <div>
        <nav>
          <Link to="/" style={{ margin: '10px' }}>Home</Link>
          <Link to="/trainers" style={{ margin: '10px' }}>Trainers</Link>
        </nav>
        <hr />

        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/trainers" element={<TrainerList trainers={trainers} />} />
          <Route path="/trainers/:id" element={<TrainerDetails />} />
        </Routes>
      </div>
    </BrowserRouter>
  );
}

```

```
export default App;
```

index.js

```
import React from 'react';  
import ReactDOM from 'react-dom/client';  
import App from './App';
```

```
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<App />);
```