**Exercise 10: Create a React Application named “officespacerentalapp”**

**Lab Objectives Breakdown**

**Concepts to Cover:**

| **Objective** | **How it's Applied** |
| --- | --- |
| **JSX** | Syntax used to write HTML inside React |
| **ECMAScript** | ES6+ features like let, const, arrow functions |
| **React.createElement()** | JSX compiles to this behind the scenes |
| **React nodes with JSX** | Use JSX to create page elements |
| **Rendering JSX to DOM** | Using ReactDOM.render() or component return |
| **JS expressions in JSX** | {} used to insert logic, variables |
| **Inline CSS in JSX** | Style object used directly in JSX elements |

**Lab Task**

**Prerequisites**

Make sure you have:

* Node.js
* npm
* VS Code

**1. Create the React App**

npx create-react-app officespacerentalapp

cd officespacerentalapp

npm start

**2. Edit App.js**

import React from "react";

import './App.css';

import officeImage from './office.jpg'; // Add your image inside /src and import

function App() {

const element = "Office Space";

const offices = [

{ Name: "DBS", Rent: 50000, Address: "Chennai" },

{ Name: "Regus", Rent: 75000, Address: "Mumbai" },

{ Name: "WorkEasy", Rent: 58000, Address: "Hyderabad" },

{ Name: "Innov8", Rent: 62000, Address: "Bangalore" }

];

return (

<div className="App">

<h1>{element}, at Affordable Range</h1>

<img src={officeImage} width="25%" height="25%" alt="Office Space" />

<hr />

{offices.map((item, index) => {

const colorClass = item.Rent <= 60000 ? "textRed" : "textGreen";

return (

<div key={index}>

<h2>Name: {item.Name}</h2>

<h3 className={colorClass}>Rent: Rs. {item.Rent}</h3>

<h3>Address: {item.Address}</h3>

<hr />

</div>

);

})}

</div>

);

}

export default App;

**3. Edit App.css**

.textRed {

color: red;

}

.textGreen {

color: green;

}

.App {

padding: 20px;

font-family: Arial, sans-serif;

}

**4. Add an Image**

* Save a placeholder image as office.jpg inside the src/ folder, or use a public image URL like:

**Summary of JSX Features Used**

| **Feature** | **Example** |
| --- | --- |
| **JSX Elements** | <h1>Office Space</h1> |
| **JS Expressions** | {office.name} |
| **Attributes in JSX** | <img src="..." alt="..." /> |
| **Inline CSS** | style={{ color: 'green' }} |
| **Conditional Rendering** | color: office.rent < 60000 ? 'red' : 'green' |
| **Array .map()** | Rendering list of office spaces |



