React-8

**Project Title: CounterApp – React Application using State**

**Objective**

* Explain the concept and usage of **React State**.

**Learning Outcome**

By completing this hands-on lab, the learner will be able to:

* Utilize the **React State object** to manage dynamic data within a component.

**Prerequisites**

To execute this lab successfully, the following tools are required:

* Node.js
* NPM
* Visual Studio Code

**Estimated Time**

* Approximately 60 minutes.

**Implementation Instructions**

1. **Project Setup**
   * Create a new React application named counterapp using the create-react-app utility.
2. **Component Definition**
   * Define a component named CountPeople.
3. **State Initialization**
   * Use the **constructor** to define and initialize the component's **state** with two properties:
     + entrycount
     + exitcount
4. **Methods**
   * Implement the following methods inside the component:
     + UpdateEntry(): Increments the entrycount by 1.
     + UpdateExit(): Increments the exitcount by 1.
5. **User Interface**
   * The component should include two buttons:
     + **Login**: Triggers the UpdateEntry method.
     + **Exit**: Triggers the UpdateExit method.
6. **Expected Output**
   * When the **Login** button is clicked, the number of people entered is incremented and displayed.
   * When the **Exit** button is clicked, the number of people exited is incremented and displayed.