**Exercise 8**

**Objectives:**

1. **Explain React State.**

React **State** is a built-in object that stores data specific to a component. It allows components to create and manage **dynamic and changeable data**. When the state changes, the component **re-renders automatically** to reflect the update. In class components, state is initialized in the **constructor** using **this.state**. State is updated using the **setState()** method and should never be modified directly.

**Hands On Practice**

1. **Create a react application “counterapp”**

npx create-react-app counterapp

1. **Create a class based component named “CountPeople” which will have 2 methods.**

**UpdateEntry() 🡪 which will display the number of people who entered the mall.**

**UpdateExit() 🡪 which will display the number of people who exited the mall.**

**CountPeople.js**

import React from 'react';

import './CountPeople.css';

class CountPeople extends React.Component{

  constructor(props){

    super(props);

    this.state = {

      entryCount: 0,

      exitCount: 0

    };

  }

  UpdateEntry = () => {

    this.setState({entryCount: this.state.entryCount + 1});

  }

  UpdateExit = () => {

    this.setState({exitCount: this.state.exitCount + 1});

  }

  render()

  {

    return(

      <div className = "count">

        <h1>Count People</h1>

        <p>People Entered: {this.state.entryCount}</p>

        <p>People Exited: {this.state.exitCount}</p>

        <button onClick={this.UpdateEntry} id='login-btn'>Login</button>

        <button onClick={this.UpdateExit} id='exit-btn'>Exit</button>

      </div>

    );

  }

}

export default CountPeople;

**CountPeople.css**

.count{

  text-align: center;

  margin-top: 50px;

}

#login-btn{

  background-color: #4CAF50;

}

#exit-btn{

  background-color: red;

  margin-left: 10px;}

1. **Modify App.js as per this application.**

**App.js**

import React from 'react';

import './CountPeople';

import CountPeople from './CountPeople';

function App() {

  return(

    <div>

      <CountPeople />

    </div>

  );

}

export default App;

1. **Output**

**A screenshot of a computer

AI-generated content may be incorrect.**