11. Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.

Code:

CurrencyConverter.js:

import React from 'react';

class CurrencyConvertor extends React.Component {

  constructor(props) {

    super(props);

    this.state = {

      rupees: '',

      euros: null,

    };

  }

  handleChange = (e) => {

    this.setState({ rupees: e.target.value });

  };

  handleSubmit = () => {

    const rupees = parseFloat(this.state.rupees);

    const euroRate = 0.011; // 1 INR = 0.011 EUR (example rate)

    const euros = (rupees \* euroRate).toFixed(2);

    this.setState({ euros });

  };

  render() {

    return (

      <div>

        <h3>Currency Converter (INR ➜ EUR)</h3>

        <input

          type="number"

          placeholder="Enter amount in Rupees"

          value={this.state.rupees}

          onChange={this.handleChange}

        />

        {' '}

        <button onClick={this.handleSubmit}>Convert</button>

        {this.state.euros && (

          <p>

            Converted Amount in Euros: <strong>€{this.state.euros}</strong>

          </p>

        )}

      </div>

    );

  }

}

export default CurrencyConvertor;

App.js:

import React from 'react';

import CurrencyConvertor from './CurrencyConvertor';

class App extends React.Component {

  constructor(props) {

    super(props);

    this.state = {

      counter: 0,

    };

  }

  // Increments counter

  handleIncrement = () => {

    this.setState(prevState => ({

      counter: prevState.counter + 1,

    }));

    this.sayHello();

  };

  // Decrements counter

  handleDecrement = () => {

    this.setState(prevState => ({

      counter: prevState.counter - 1,

    }));

  };

  // Say Hello

  sayHello = () => {

    console.log("Hello! Button clicked.");

    alert("Hello! You just increased the count.");

  };

  // Say Welcome with parameter

  sayWelcome = (message) => {

    alert(message);

  };

  // Synthetic Event handler

  handleClick = (e) => {

    alert("I was clicked!");

    console.log("Synthetic event object:", e);

  };

  render() {

    return (

      <div style={{ padding: "20px", fontFamily: "Arial" }}>

        <h2>Event Examples App</h2>

        <h3>Counter: {this.state.counter}</h3>

        <button onClick={this.handleIncrement}>Increment</button>{' '}

        <button onClick={this.handleDecrement}>Decrement</button>

        <hr />

        <button onClick={() => this.sayWelcome("Welcome to React Events!")}>

          Say Welcome

        </button>

        <hr />

        <button onClick={this.handleClick}>Click Me (Synthetic Event)</button>

        <hr />

        <CurrencyConvertor />

      </div>

    );

  }

}

export default App;

Output:



