**11. ReactJS-HOL**

**App.js**

import React, { Component } from 'react';

import CurrencyConvertor from './Currency';

class App extends Component {

constructor(props) {

super(props);

this.state = {

counter: 0

};

}

increment = () => {

this.setState(prev => ({ counter: prev.counter + 1 }));

};

sayHello = () => {

console.log("Hello from React Event!");

};

handleIncrement = () => {

this.increment();

this.sayHello();

};

decrement = () => {

this.setState(prev => ({ counter: prev.counter - 1 }));

};

sayWelcome = (msg) => {

alert(`Message: ${msg}`);

};

handleSyntheticEvent = (event) => {

alert("I was clicked");

console.log("Synthetic Event:", event);

};

render() {

return (

<div style={{ padding: '30px' }}>

<h1>React Event Examples</h1>

<h2>Counter: {this.state.counter}</h2>

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

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

<hr />

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

Say Welcome

</button>

<hr />

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

<hr />

<CurrencyConvertor />

</div>

);

}

}

export default App;

**Currency.js**

import React, { Component } from 'react';

class Currency extends Component {

constructor(props) {

super(props);

this.state = {

rupees: '',

euros: ''

};

}

handleChange = (e) => {

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

};

handleSubmit = (e) => {

e.preventDefault();

const euroRate = 0.011; // Example: 1 INR = 0.011 EUR

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

this.setState({ euros });

};

render() {

return (

<div style={{ marginTop: '20px' }}>

<h2>Currency Converter (INR to Euro)</h2>

<form onSubmit={this.handleSubmit}>

<input

type="number"

placeholder="Enter amount in INR"

value={this.state.rupees}

onChange={this.handleChange}

/>

<button type="submit">Convert</button>

</form>

{this.state.euros && (

<p>

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

</p>

)}

</div>

);

}

}

export default Currency;

OUTPUT:





