ReactJS HOL11:

Code:

1. App.js :

```jsx
import React from 'react';

import Counter from './Counter';

import CurrencyConvertor from './CurrencyConvertor';

import './App.css';



class App extends React.Component {


  // A function that accepts an argument

  greet(message) {

    alert(message);

  }



  // A function that uses the synthetic event object

  handlePress(event) {

    console.log(event); // You can inspect the SyntheticEvent
in the console

    alert('I was clicked');

  }



  render() {
```

```jsx
    return (

      <div className="App">

        <h1>React Event Handling Examples</h1>


        <Counter />

        <hr />



        {/* Button that passes an argument to its event
handler */}

        <button onClick={() => this.greet('Welcome')}>Say
Welcome</button>

        <hr />



        {/* Button that demonstrates a synthetic event */}

        <button onClick={this.handlePress}>OnPress (Synthetic
Event)</button>

        <hr />



        <CurrencyConvertor />

      </div>

    );

  }

}
```

```
export default App;
```

2. Counter.js :

```jsx
import React from 'react';

class Counter extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      count: 0
    };
    this.handleIncrement = this.handleIncrement.bind(this);
    this.handleDecrement = this.handleDecrement.bind(this);
  }

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

  sayHello() {
    alert('Hello! The button was clicked.');
  }

  handleIncrement() {
    this.increment();
    this.sayHello();
  }

  handleDecrement() {
    this.setState({ count: this.state.count - 1 });
  }

  render() {
    return (
      <div>
        <h2>Counter</h2>
        <h3>Current Count: {this.state.count}</h3>
        {/* The "Increase" button invokes multiple methods */}
```

```jsx
            <button onClick={this.handleIncrement}>Increment</button>
            <button onClick={this.handleDecrement}>Decrement</button>
        </div>
    );
  }
}

export default Counter;
```

3. CurrencyConvertor.js :

```jsx
import React from 'react';

class CurrencyConvertor extends React.Component {
    constructor(props) {
        super(props);
        this.state = {
            inr: 0,
            eur: 0,
            conversionRate: 90.0 // Example rate: 1 EUR = 90 INR
        };
        this.handleChange = this.handleChange.bind(this);
        this.handleSubmit = this.handleSubmit.bind(this);
    }

    // Update state when user types in the input box
    handleChange(event) {
        this.setState({ inr: event.target.value });
    }

    // Handle the conversion when the button is clicked
    handleSubmit() {
        const result = this.state.inr / this.state.conversionRate;
        this.setState({ eur: result.toFixed(2) });
    }

    render() {
        return (
```

```jsx
            <div>
                <h2>Currency Converter</h2>
                <label>
                    Indian Rupees (INR):
                    <input type="number" value={this.state.inr}
onChange={this.handleChange} />
                </label>
                <button onClick={this.handleSubmit}>Convert</button>
                <h3>Euros (EUR): €{this.state.eur}</h3>
            </div>
        );
    }
}


export default CurrencyConvertor;
```
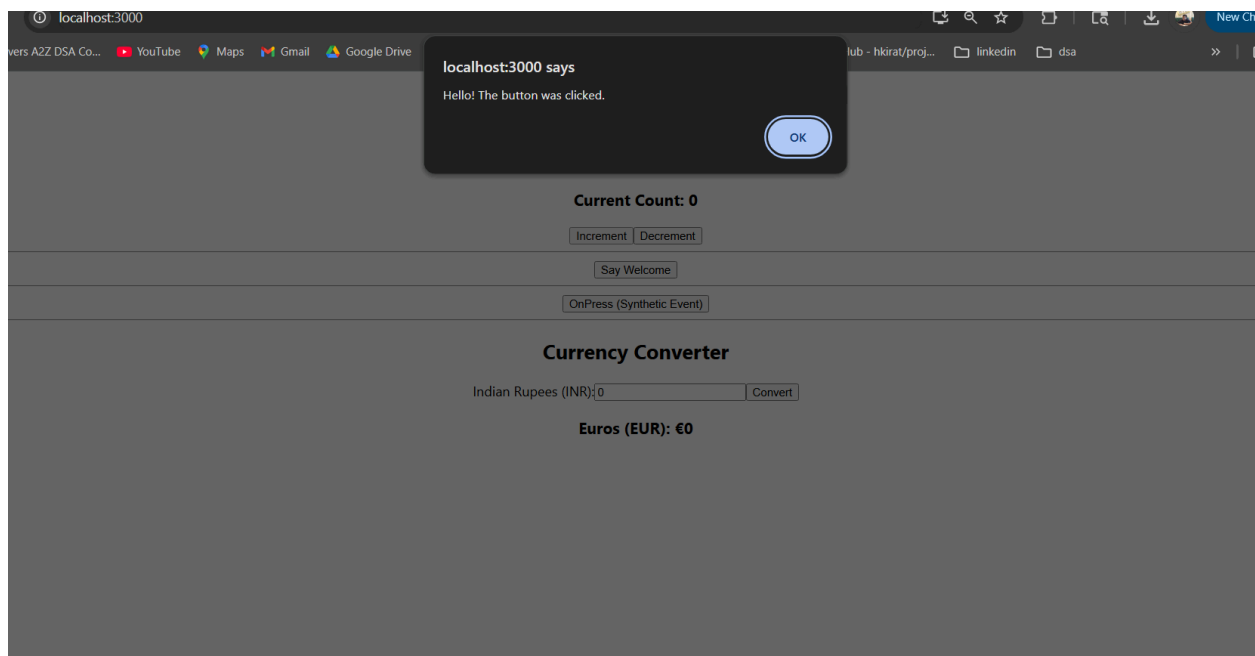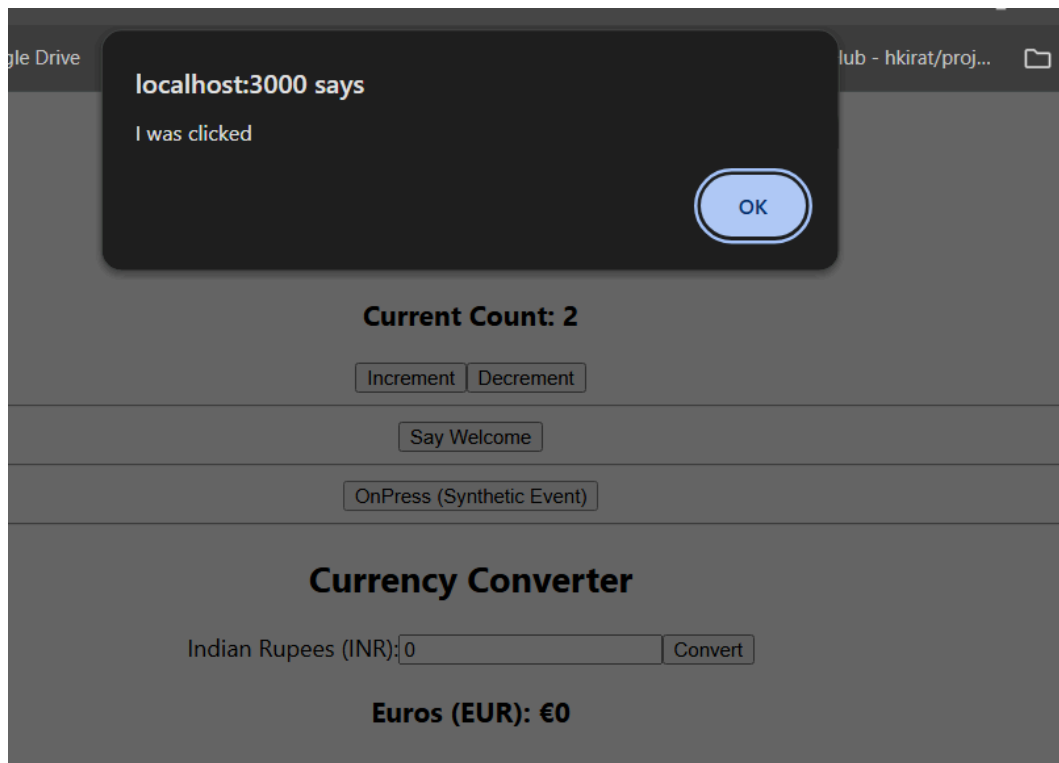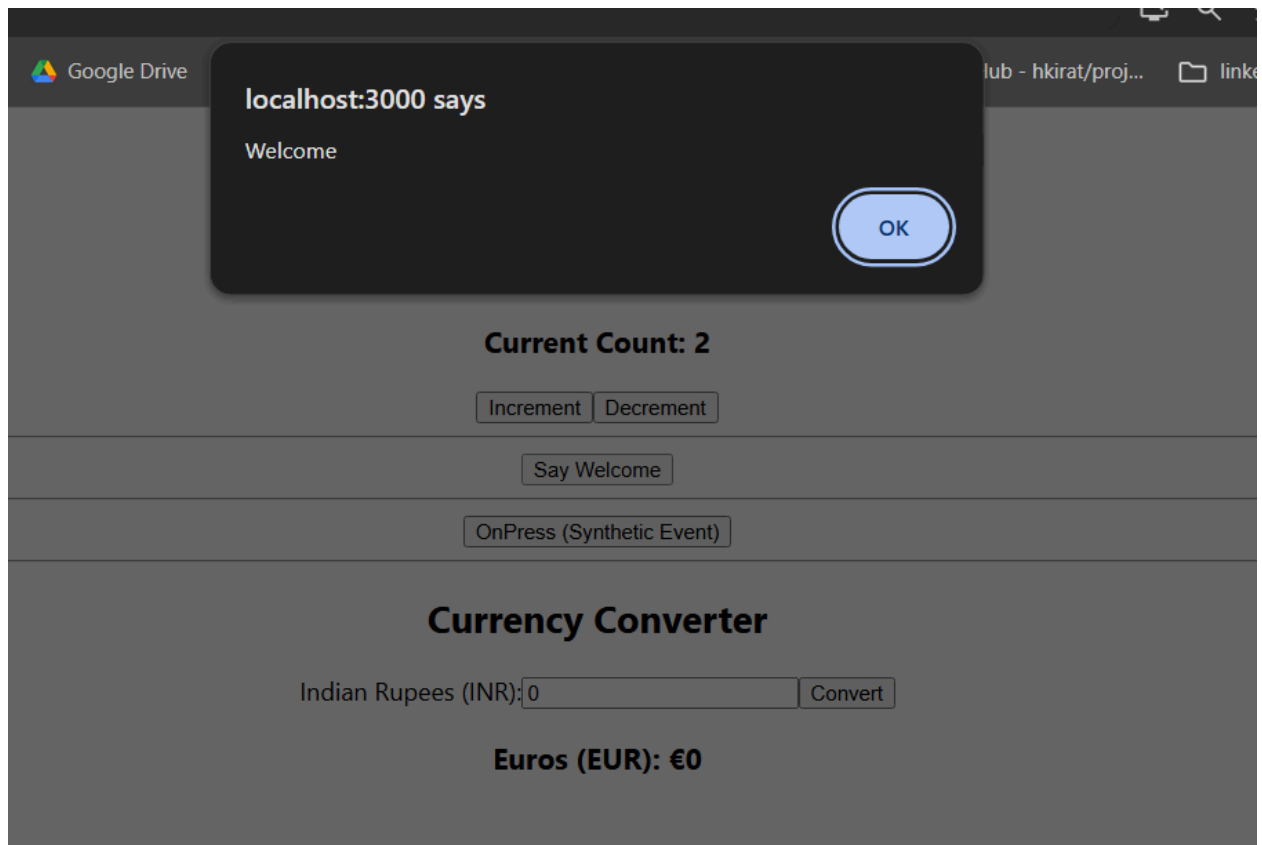
Output:

Current Count: 2

Increment | Decrement

Say Welcome

OnPress (Synthetic Event)

Currency Converter

Indian Rupees (INR): 0 | Convert

Euros (EUR): €0

Current Count: 2

Increment | Decrement

Say Welcome

OnPress (Synthetic Event)

Currency Converter

Indian Rupees (INR): 0 | Convert

Euros (EUR): €0

Currency Converter

Indian Rupees (INR): 80 [Convert]

Euros (EUR): €0.89