11. ReactJS-HOL From Folder React:

Create react app with name eventexampleapp through terminal or vs code

```
Windows PowerShell
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Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadL
ses. If you want to re-enable it, run 'Import-Module PSReadLine'.

PS C:\Users\91833> npx create-react-app eventexamplesapp

Creating a new React app in C:\Users\91833\eventexamplesapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
```

```
Run 'npm audit' for details.

Success! Created eventexamplesapp at C:\Users\91833\eventexamplesapp
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.
```

Now create a file name Currency Convertor.js under src

Code of currencyConvertor.js: code from vs code

```js
import React, { useState } from 'react';
function CurrencyConvertor() {
  const [amount, setAmount] = useState('');
  const [converted, setConverted] = useState(null);

  const handleSubmit = (e) => {
    e.preventDefault();
    const euroRate = 0.011; // Example: 1 INR = 0.011
    const euro = (parseFloat(amount) * euroRate).toFix
    setConverted(`€ ${euro}`);
  };
  const convertToINR = () => {
    const inrRate = 91.0; // Example: 1 EUR = 91 INR
    const inr = (parseFloat(amount) * inrRate).toFixed
    setConverted(`₹ ${inr}`);
  };
  return (
```
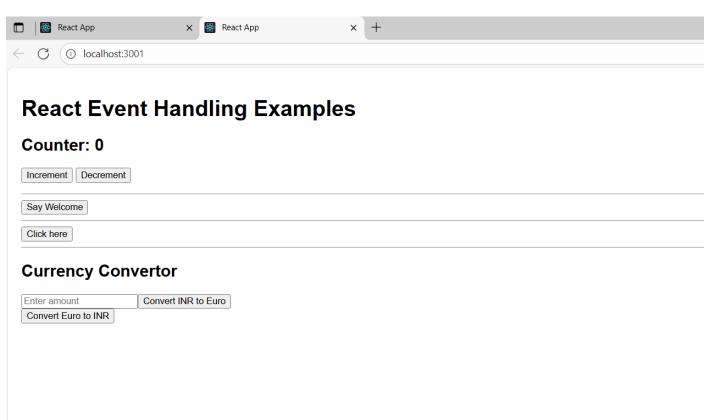
```
    };
    return (
      <div>
        <h2>Currency Convertor</h2>
        <form onSubmit={handleSubmit}>
          <input
            type="number"
            value={amount}
            placeholder="Enter amount"
            onChange={(e) => setAmount(e.target.value)}
          />
          <button type="submit">Convert INR to Euro</but
        </form>
        <button onClick={convertToINR}>Convert Euro to I
        <p>{converted}</p>
      </div>
    );
  }
export default CurrencyConvertor;
```
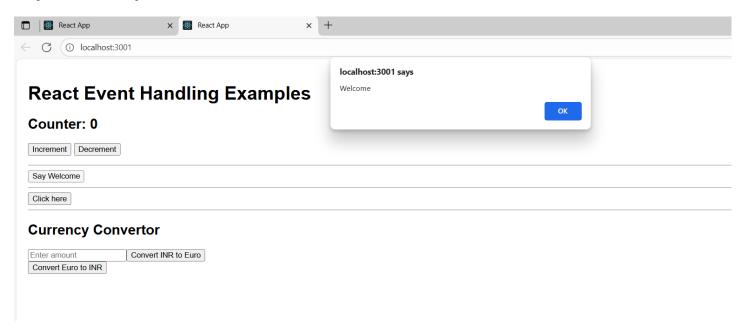
Modify App.js to this:

```
1    import React, { Component } from 'react';
2    import CurrencyConvertor from './CurrencyConvertor';
3
4    class App extends Component {
5      constructor() {
6        super();
7        this.state = {
8          count: 0,
9          message: ''
10       };
11     }
12
13     increment = () => {
14       this.setState((prevState) => ({ count: prevState.count + 1 }));
15     };
16
17     sayHello = () => {
18       console.log("Hello");
19     };
20
21     showMessage = () => {
22       this.setState({ message: "Static message: Have a great day!" });
23     };
24
25     handleIncrementClick = () => {
26       this.increment();
27       this.sayHello();
28       this.showMessage();
29     };
30
31     decrement = () => {
32       this.setState((prevState) => ({ count: prevState.count - 1 }));
33     };
```

```
class App extends Component {
  decrement = () => {
    this.setState((prevState) => ({ count: prevState.count - 1 }));
  };
  sayWelcome = (msg) => {
    alert(msg);
  };
  onSyntheticClick = (event) => {
    console.log("Synthetic Event: ", event);
    alert("I was clicked");
  };
  render() {
    return (
      <div style={{ padding: '20px', fontFamily: 'Arial' }}>
        <h1>React Event Handling Examples</h1>
        {/* Counter Buttons */}
        <h2>Counter: {this.state.count}</h2>
        <button onClick={this.handleIncrementClick}>Increment</button>{' '}
        <button onClick={this.decrement}>Decrement</button>
        <p>{this.state.message}</p>
        <hr />
        {/* Say Welcome Button */}
        <button onClick={() => this.sayWelcome("Welcome")}>Say Welcome</button>
        <hr />
        {/* click here */}
        <button onClick={this.onSyntheticClick}>Click here </button>
        <hr />
        {/* Currency Convertor */}
        <CurrencyConvertor />
      </div>
    );
  }
}
```
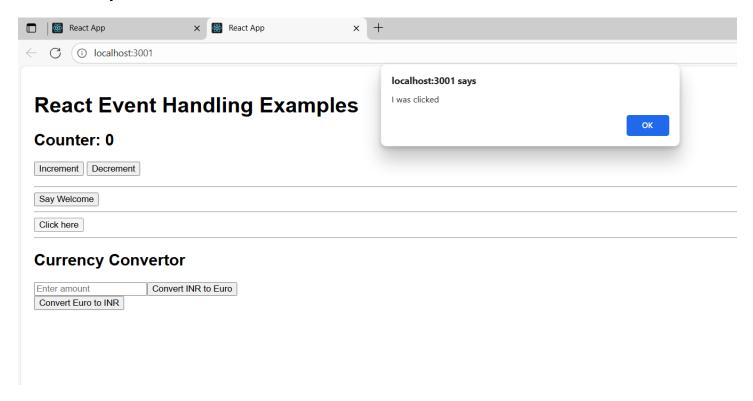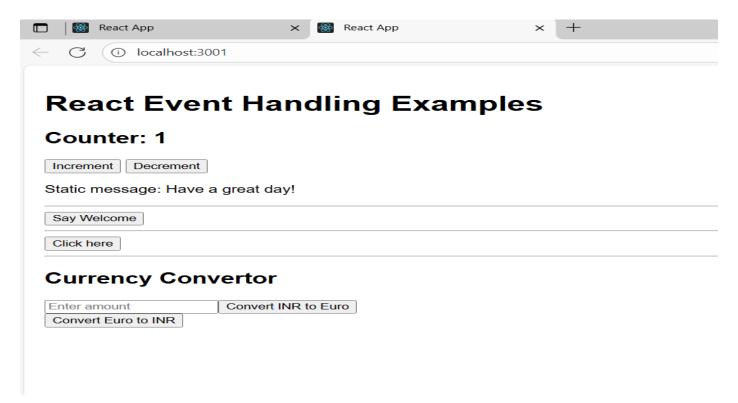
Output after runnibg this app:

Say welcome pressed:

Click here pressed:

Same for increment and decrement:

Decrement to 0:

React Event Handling Examples

Counter: 0

Increment   Decrement

Static message: Have a great day!

_____

Say Welcome

_____

Click here

_____

Currency Convertor

Enter amount   Convert INR to Euro
Convert Euro to INR