

11.

REACT-JS-HOL – 11

1. Explain React Events

In React, events are actions that occur due to user interaction such as clicking, typing, submitting, hovering, etc.

React events are very similar to DOM events in plain JavaScript, but with a few differences:

- React uses a cross-browser wrapper around the browser's native events called `SyntheticEvent`.
- React events are written in camelCase (e.g., `onClick` instead of `onclick`).

Example:

```
<button onClick={handleClick}>Click Me</button>
```

2. Explain Event Handlers

An event handler is a function that gets called when an event is triggered.

In React:

- You assign the handler function directly inside JSX.
- You do not use parentheses unless you're passing arguments.

Example:

```
function handleClick() { alert('Button  
was clicked!');  
}
```

```
<button onClick={handleClick}>Click</button>
```

With parameters:

```
<button onClick={() => handleClick("Hi")}>Click</button>
```

3. Define Synthetic Event

A `SyntheticEvent` is React's cross-browser wrapper around the native browser event. It normalizes events so that they behave the same in every browser.

- It wraps the native DOM event and provides the same interface.
- It's part of React's event system for better performance and consistency.

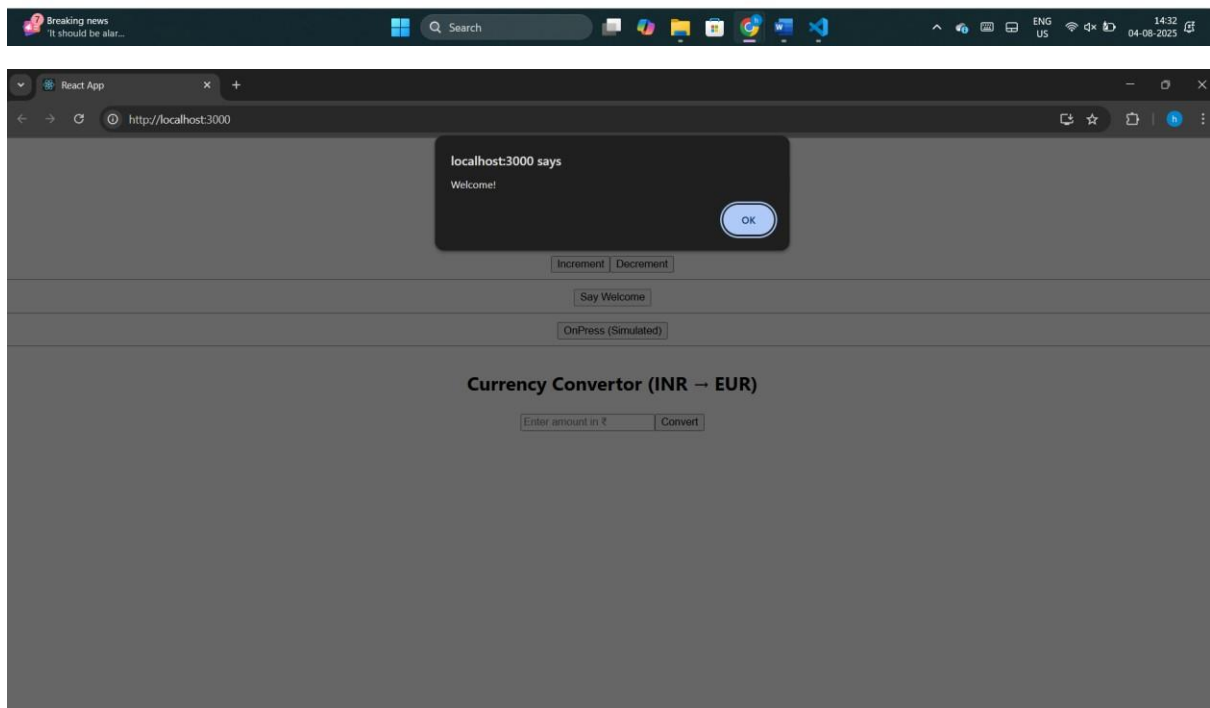
```
Example: function handleChange(e) {  
  console.log(e); // SyntheticEvent  
  console.log(e.target.value); // Access input value  
}
```

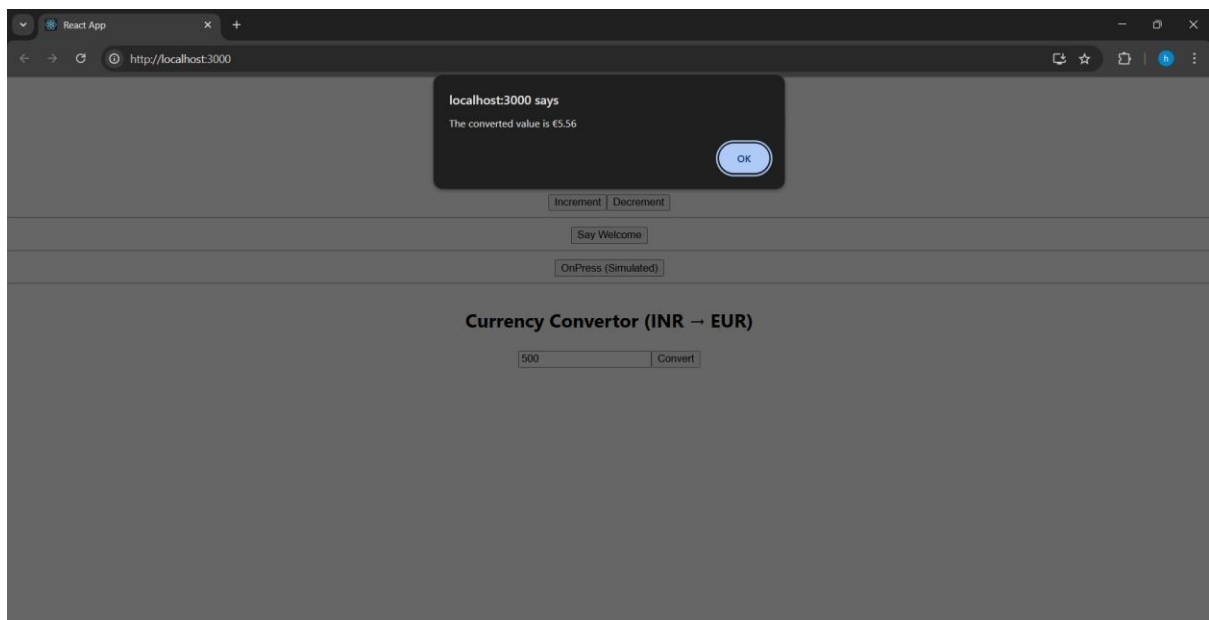
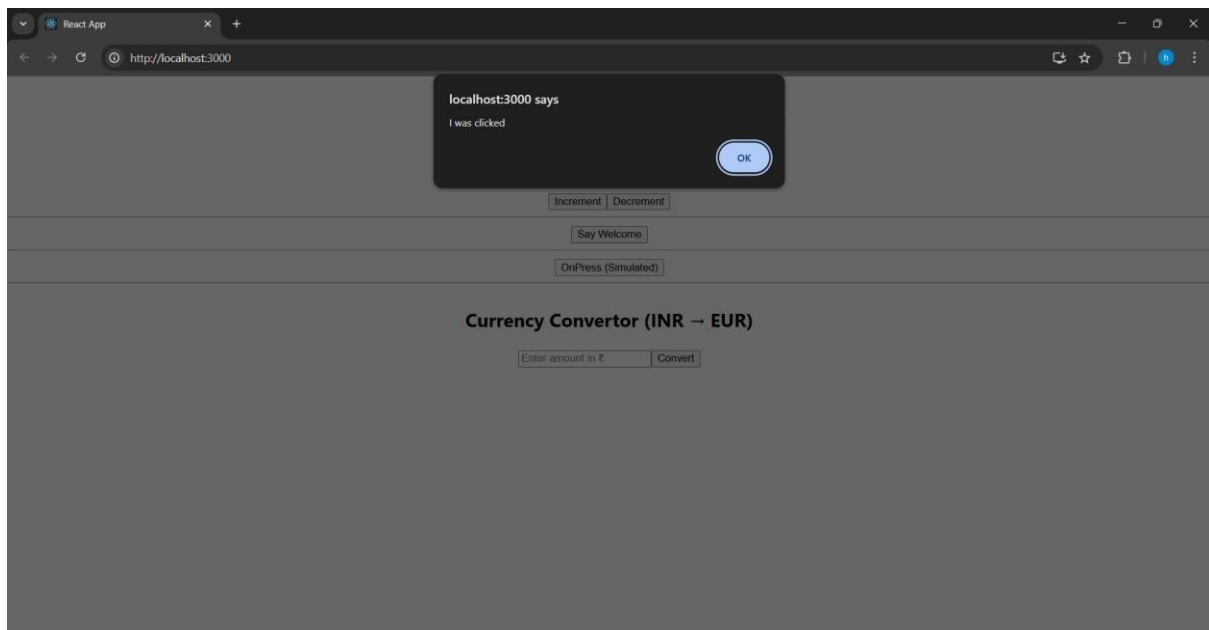
```
<input type="text" onChange={handleChange} />
```

4. React Event Naming Convention

Feature React	HTML
Syntax camelCase	lowercase
Value	JSX expression String

Output:





React Events Example

Counter: 2

Increment Decrement

Say Welcome

OnPress (Simulated)

Currency Convertor (INR -> EUR)

500 Convert

Equivalent in Euro: ₹5.56