WEEK:7

* Explain React events

React wraps browser events in a cross-browser wrapper called a **Synthetic Event**. Events in React are similar to HTML DOM events but follow a slightly different naming and handling pattern.

* Explain about event handlers

**Event handlers** are functions that execute in response to events such as onClick, onChange, or onSubmit.In React, event handlers are passed as **functions** inside JSX using **camelCase**.

* Define Synthetic event: It normalizes events across all browsers, ensuring consistency. All React events (e.g., onClick, onChange) use this synthetic wrapper.It has the same interface as the native event, including methods like preventDefault() and stopPropagation().

• Identify React event naming convention

1. CamelCase Naming
2. Handler Value is a Function
3. No Quotes Around Handler

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

1. Create “Increment” button to increase the value of the counter and “Decrement” button to decrease the value of the counter. The “Increase” button should invoke multiple methods.
   1. To increment the value
   2. Say Hello followed by a static message.

App.js:

import React, { useState } from 'react';

function App() {

// State to hold counter value

const [counter, setCounter] = useState(0);

// Method to increment

const increment = () => {

setCounter(prev => prev + 1);

};

// Say hello with message

const sayHello = () => {

console.log("Hello! Welcome to event handling in React.");

};

// Method that calls both increment and sayHello

const handleIncrement = () => {

increment(); // Increment counter

sayHello(); // Display message

};

// Decrement method

const handleDecrement = () => {

setCounter(prev => prev - 1);

};

return (

<div style={{ textAlign: 'center', marginTop: '50px' }}>

<h1>React Event Handling Example</h1>

<h2>Counter: {counter}</h2>

<button onClick={handleIncrement} style={{ marginRight: '10px' }}>

Increment

</button>

<button onClick={handleDecrement}>

Decrement

</button>

</div>

);

}

export default App;

Output:

