**WEEK- 6: REACT**

**Exercise-11: ReactJS – HOL**

**1.index.html:**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />

    <title>Event Examples App</title>

  </head>

  <body>

    <div id="root"></div>

  </body>

</html>

**2.App.js:**

import React, { Component } from "react";

import CurrencyConvertor from "./CurrencyConvertor";

class App extends Component {

  constructor(props) {

    super(props);

    this.state = { counter: 0 };

    this.sayWelcome = this.sayWelcome.bind(this);

  }

  increment = () => {

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

  };

  sayHello = () => {

    console.log("Hello! This is a static message.");

    alert("Hello! This is a static message.");

  };

  decrement = () => {

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

  };

  handleIncrementClick = () => {

    this.increment();

    this.sayHello();

  };

  sayWelcome(message) {

    alert(message);

  }

  handleSyntheticEvent = (event) => {

    alert("I was clicked");

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

  };

  render() {

    return (

      <div style={{ padding: "20px", fontFamily: "Arial" }}>

        <h1>React Event Examples</h1>

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

        <button onClick={this.handleIncrementClick}>Increment</button>

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

        <br /><br />

        <button onClick={() => this.sayWelcome("Welcome")}>Say Welcome</button>

        <br /><br />

        <button onClick={this.handleSyntheticEvent}>OnPress</button>

        <CurrencyConvertor />

      </div>

    );

  }

}

export default App;

**3.CurrencyConvertor.js:**

import React, { useState } from "react";

function CurrencyConvertor() {

  const [rupees, setRupees] = useState("");

  const [euros, setEuros] = useState("");

  const handleSubmit = (e) => {

    e.preventDefault();

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

    const convertedValue = (parseFloat(rupees) \* conversionRate).toFixed(2);

    setEuros(convertedValue);

  };

  return (

    <div style={{ marginTop: "20px", padding: "10px", border: "1px solid #ccc" }}>

      <h2>Currency Convertor</h2>

      <form onSubmit={handleSubmit}>

        <input

          type="number"

          placeholder="Enter amount in INR"

          value={rupees}

          onChange={(e) => setRupees(e.target.value)}

        />

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

      </form>

      {euros && <p>{rupees} INR = {euros} EUR</p>}

    </div>

  );

}

export default CurrencyConvertor;

**4.index.js:**

import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App";

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(<App />);

**Output:**

A screenshot of a computer

AI-generated content may be incorrect.