**React Task**

**Task 1 :**

import React, { Component } from "react";

class Counter extends Component {

constructor(props) {

super(props);

this.state = {

count: 0,

};

}

// Increment Function

increment = () => {

this.setState((prevState) => ({

count: prevState.count + 1,

}));

};

// Decrement Function

decrement = () => {

this.setState((prevState) => ({

count: prevState.count - 1,

}));

};

render() {

return (

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

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

<button onClick={this.increment} style={{margin: '10px', padding: '10px'}}>++</button>

<button onClick={this.decrement} style={{margin: '10px', padding: '10px'}}>--</button>

</div>

);

}

}

export default Counter;

**Task 2 :**

App.js :

import React from "react";

import MobileDetails from "./MobileDetails";

function App() {

return (

<div>

<h1>Mobile Store</h1>

<MobileDetails />

</div>

);

}

export default App;

**MobileDetails.js :**

import React, { Component } from "react";

class MobileDetails extends Component {

constructor(props) {

super(props);

this.state = {

mobiles: [

{ id: 1, model: "iPhone 14", price: 79999 },

{ id: 2, model: "Samsung Galaxy S23", price: 74999 },

{ id: 3, model: "OnePlus 11", price: 56999 },

],

};

}

render() {

return (

<div>

<h2>Mobile List</h2>

{this.state.mobiles.map((mobile) => (

<div key={mobile.id}>

<h3>Mobile ID: {mobile.id}</h3>

<p>Model: {mobile.model}</p>

<p>Price: ₹{mobile.price}</p>

<hr />

</div>

))}

</div>

);

}

}

export default MobileDetails;

**Task 3 :**

**App.js**

import React, { Component } from "react";

import Calculator from "./Calculator";

class App extends Component {

constructor(props) {

super(props);

this.state = {

num1: "",

num2: "",

};

}

handleChange = (event) => {

this.setState({ [event.target.name]: event.target.value });

};

render() {

return (

<div className="p-6 max-w-md mx-auto bg-white rounded-xl shadow-md space-y-4">

<h2 className="text-xl font-bold">Calculator App</h2>

<input

type="number"

name="num1"

value={this.state.num1}

onChange={this.handleChange}

placeholder="Enter number 1"

className="border p-2 w-full"

/>

<input

type="number"

name="num2"

value={this.state.num2}

onChange={this.handleChange}

placeholder="Enter number 2"

className="border p-2 w-full"

/>

<Calculator num1={this.state.num1} num2={this.state.num2} />

</div>

);

}

}

export default App;

**Calculator.js**

import React, { Component } from "react";

class Calculator extends Component {

render() {

const num1 = parseFloat(this.props.num1) || 0;

const num2 = parseFloat(this.props.num2) || 0;

return (

<div className="mt-4 p-4 bg-gray-100 rounded">

<h3 className="font-semibold">Results:</h3>

<p>Sum: {num1 + num2}</p>

<p>Difference: {num1 - num2}</p>

<p>Product: {num1 \* num2}</p>

</div>

);

}

}

export default Calculator;