**React Day 1 Tasks**

**Q1. Create Counter application using and Class components.**

**display 2 buttons - ++ --**

**use state and perform increment and decrement operations using usedefined functions and setState method.  
  
Code:**

import React, {Component} from 'react';

class Counter extends Component {

constructor(props) {

super(props);

this.state = {

count: 0,

};

}

increment = () => {

this.setState((prevState) => ({ count: prevState.count + 1}));

};

decrement = () => {

this.setState((prevState) => ({ count: prevState.count - 1}));

};

render() {

return (

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

<h2>Counter Application</h2>

<h1>{this.state.count}</h1>

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

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

</div>

);

}

}

export default Counter;

**Q2.Create application to display Mobile details, Id,Model,Price details using child component ( MobileDetails).  
  
  
Code:**import React from 'react';

const MobileDetails = ({ id, model, price }) => {

return (

<div style={{ border: '1px solid black', padding: '10px', margin: '10px', borderRadius: '5px' }}>

<h3>Model: {model}</h3>

<p><strong>ID:</strong> {id}</p>

<p><strong>Price:</strong> ${price}</p>

</div>

);

};

class MobileList extends React.Component {

constructor(props) {

super(props);

this.state = {

mobiles: [

{ id: 1, model: 'iPhone 13', price: 899 },

{ id: 2, model: 'Samsung Galaxy S22', price: 799 },

{ id: 3, model: 'OnePlus 10', price: 699 },

],

};

}

render() {

return (

<div style={{ textAlign: 'center', marginTop: '20px' }}>

<h2>Mobile Details</h2>

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

<MobileDetails key={mobile.id} id={mobile.id} model={mobile.model} price={mobile.price} />

))}

</div>

);

}

}

export default MobileList;

**Q3.Create application to send number1,number2 values read from form in App component and send to child Calculator component and perform sum,diff,product calculations and display results.   
  
Code:  
  
App.js:**import React, { Component } from 'react';

import Calculator from './Calculator';

class App extends Component {

constructor(props) {

super(props);

this.state = {

number1: '',

number2: '',

};

}

handleChange = (e) => {

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

};

render() {

return (

<div style={{ textAlign: 'center', marginTop: '20px' }}>

<h2>Simple Calculator</h2>

<input

type="number"

name="number1"

placeholder="Enter number 1"

value={this.state.number1}

onChange={this.handleChange}

style={{ margin: '5px' }}

/>

<input

type="number"

name="number2"

placeholder="Enter number 2"

value={this.state.number2}

onChange={this.handleChange}

style={{ margin: '5px' }}

/>

<Calculator number1={this.state.number1} number2={this.state.number2} />

</div>

);

}

}

export default App;  
  
  
**Calculator.js:**  
  
  
import React from 'react';

const Calculator = ({ number1, number2 }) => {

const num1 = parseFloat(number1);

const num2 = parseFloat(number2);

if (isNaN(num1) || isNaN(num2)) {

return <p>Please enter valid numbers.</p>;

}

return (

<div>

<h3>Results:</h3>

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

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

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

</div>

);

};

export default Calculator;