

CALCULATOR IN REACT

App.js:

```
import React, { Component } from 'react';
import './styles.css';
import ResultComponent from './Components/ResultComponent.js';
import KeyPadComponent from './Components/KeyPadComponent.js';
class App extends Component {
  state = {
    result: ""
  }
  onClick = button => {
    if(button === "=") {
      this.calculate();
    }
    else {
      this.setState({
        result: this.state.result + button
      })
    }
  };
  calculate = () => {
    var checkResult = "
    if(this.state.result.includes('--')) {
      checkResult = this.state.result.replace('--', '+')
    } else {
      checkResult = this.state.result;
    }
    try {
      this.setState({
        result: (eval(checkResult) || "") + ""
      })
    } catch(e) {
      this.setState({
        result: "error"
      })
    }
  };
  render() {
    return (
      <div>
```

```

    <div className="calculator-body">
      <ResultComponent result={this.state.result} />
      <KeyPadComponent onClick={this.onClick} />
    </div>
  </div>
)
}
}
export default App;

```

KeyPadComponent.js:

```

import React, { Component } from 'react';
class KeyPadComponent extends Component {
  render() {
    return (
      <div className="button">
        <button name="1" onClick={e => this.props.onClick(e.target.name)}>1</button>
        <button name="2" onClick={e => this.props.onClick(e.target.name)}>2</button>
        <button name="3" onClick={e => this.props.onClick(e.target.name)}>3</button>
        <button name="+" onClick={e => this.props.onClick(e.target.name)}>+</button><br/>
        <button name="4" onClick={e => this.props.onClick(e.target.name)}>4</button>
        <button name="5" onClick={e => this.props.onClick(e.target.name)}>5</button>
        <button name="6" onClick={e => this.props.onClick(e.target.name)}>6</button>
        <button name="-" onClick={e => this.props.onClick(e.target.name)}>-</button><br/>
        <button name="7" onClick={e => this.props.onClick(e.target.name)}>7</button>
        <button name="8" onClick={e => this.props.onClick(e.target.name)}>8</button>
        <button name="9" onClick={e => this.props.onClick(e.target.name)}>9</button>
        <button name="*" onClick={e => this.props.onClick(e.target.name)}>x</button><br/>
        <button name="." onClick={e => this.props.onClick(e.target.name)}>.</button>
        <button name="0" onClick={e => this.props.onClick(e.target.name)}>0</button>
        <button name="=" onClick={e => this.props.onClick(e.target.name)}>=</button>
        <button name="/" onClick={e => this.props.onClick(e.target.name)}>÷</button><br/>
      </div>
    )
  }
}
export default KeyPadComponent;

```

ResultComponent.js:

```
import React, { Component } from 'react';
class ResultComponent extends Component {
  render() {
    let { result } = this.props;
    return (
      <div className="result">
        <p>{ result }</p>
      </div>
    )
  }
}
export default ResultComponent;
```

styles.css:

```
.result {
  height: 60px;
  background-color: lightblue;
  width: 100%;
}

.result p {
  font-size: 40px;
  margin: 5px;
}

.calculator-body {
  max-width: 400px;
  margin: auto;
}

.button {
  display: block;
  background-color: lightcyan;
}

button {
  width: 25%;
  height: 60px;
  font-size: 30px;
  background-color: lightseagreen;
}
```

Output:

