CODE Button.css

```css
.Button
{
        background: #cad2c5;
        display: flex;
        border: 1px solid rgba(0,0,0,0.05);
        box-sizing: border-box;
        align-items: center;
        justify-content: center;
        width: 25%;
        font-size: 24px;
        color: rgba(0, 0, 0, 0.5);
        height: 20%;
        min-width: 25%;
    }


    .Button[data-size="2"] {
        height: 40%;
    }


    .Button[data-value="null"] {
        pointer-events: none;
    }


    .Button:hover {
        background: #d7ddd3;
        cursor: default;
    }
```

CODE Botton.js

```jsx
import
React,
{Component}
from
'react';
        import "./Button.css";


        class Button extends Component {
            render(){
                return(
                    <div
                        className="Button"
                        onClick={this.props.onClick}
                        data-size={this.props.size}
                        data-value={this.props.value}>
                        {this.props.label}
                    </div>
                );
            }
        }


        export default Button;
```

CODE Display.css

```css
.Display
{
        display: flex;
        justify-content: flex-end;
        align-items: center;
        background: #2b293d;
        height: 20%;
        color: #80c9c9;
        font-size: 24px;
    }
```

CODE Display.js

```javascript
import React, {Component} from 'react';
        import "./Display.css";


        class Display extends Component {
            render(){
                return(
                    <div className="Display">
                        {this.props.data}
                    </div>
                );
            }
        }


        export default Display;
```

CODE Keypad.css

```css
.Keypad
{
    display: flex;
    flex-wrap: wrap;
    flex-direction: column;
    height: 80%;
}
```

CODE Keypad.js

```jsx
import React, {Component} from 'react';
import "./Keypad.css";


class Keypad extends Component {
    render(){
        return(
            <div className="Keypad">
                {/* We are using composition instead of inheritance.
                    read more: https://reactjs.org/docs/composition-vs-inheritance.html
                */}
                {this.props.children}
            </div>
        );
    }
}


export default Keypad;
```

```css
body {
        display: flex;
        align-items: center;
        justify-content: center;
        overflow: hidden;
    }


    .Calculator {
        width: 400px;
        height: 300px;
        position: relative;
        margin: 25px;
    }
```

```js
import
React,
{Component}
from
'react';
        import Button from './Button';
        import Keypad from './Keypad';
        import './Calculator.css';
        import Display from './Display';


        class Calculator extends Component {
            render(){
                return(
```

```jsx
            <div className="Calculator">
                <Display data={this.state.data}/>
                <Keypad>
                    <Button label="C" value="clear" />
                    <Button label="7" value="7" />
                    <Button label="4" value="4" />
                    <Button label="1" value="1" />
                    <Button label="0" value="0" />


                    <Button label="/" value="/" />
                    <Button label="8" value="8" />
                    <Button label="5" value="5" />
                    <Button label="2" value="2" />
                    <Button label="." value="." />


                    <Button label="x" value="*" />
                    <Button label="9" value="9" />
                    <Button label="6" value="6" />
                    <Button label="3" value="3" />
                    <Button label="" value="null" />


                    <Button label="-" value="-" />
                    <Button label="+" size="2" value="+" />
                    <Button label="=" size="2" value="equal" />
                </Keypad>
            </div>
        );
    }
}


export default Calculator;
```

CODE Calculator.js

```jsx
import
React,
{Component}
from
'react';
        import Button from './Button';
```

```jsx
import './Calculator.css';
import Display from './Display';
import Keypad from './Keypad';


class Calculator extends Component {
    constructor() {
        super();
        this.state = { data: ''}
    }


    calculate = () => {
        try {
            const result = eval(this.state.data);
            this.setState({data: result});
        } catch (e) {
            this.setState({data: 'error'})
        }
    }


    handleClick = e => {
        const value = e.target.getAttribute('data-value');
        switch(value) {
            case 'clear':
                this.setState({ data: ''});
                break;
            case 'equal':
                this.calculate();
                break;
            default:
                this.setState({ data: this.state.data + value});
        }
    }
    render(){
        return(
            <div className="Calculator">
                <Display data={this.state.data}/>
                <Keypad>
                    <Button onClick={this.handleClick} label="C" value="clear" />
                    <Button onClick={this.handleClick} label="7" value="7" />
                    <Button onClick={this.handleClick} label="4" value="4" />
                    <Button onClick={this.handleClick} label="1" value="1" />
                    <Button onClick={this.handleClick} label="0" value="0" />
```

```jsx
                    <Button onClick={this.handleClick} label="/" value="/" />
                    <Button onClick={this.handleClick} label="8" value="8" />
                    <Button onClick={this.handleClick} label="5" value="5" />
                    <Button onClick={this.handleClick} label="2" value="2" />
                    <Button onClick={this.handleClick} label="." value="." />


                    <Button onClick={this.handleClick} label="x" value="*" />
                    <Button onClick={this.handleClick} label="9" value="9" />
                    <Button onClick={this.handleClick} label="6" value="6" />
                    <Button onClick={this.handleClick} label="3" value="3" />
                    <Button onClick={this.handleClick} label="" value="null" />


                    <Button onClick={this.handleClick} label="-" value="-" />
                    <Button onClick={this.handleClick} label="+" size="2" value="+" />
                    <Button onClick={this.handleClick} label="=" size="2" value="equal"
/>
            </Keypad>
        </div>
    );
  }
}


export default Calculator;
```