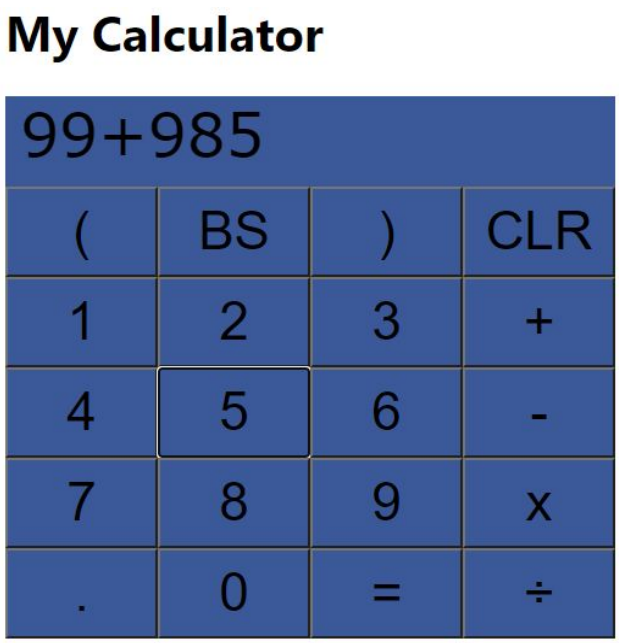
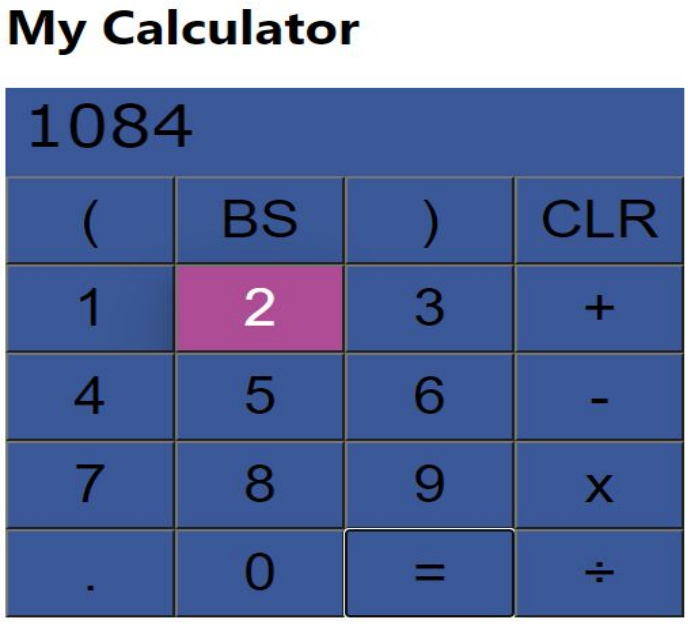
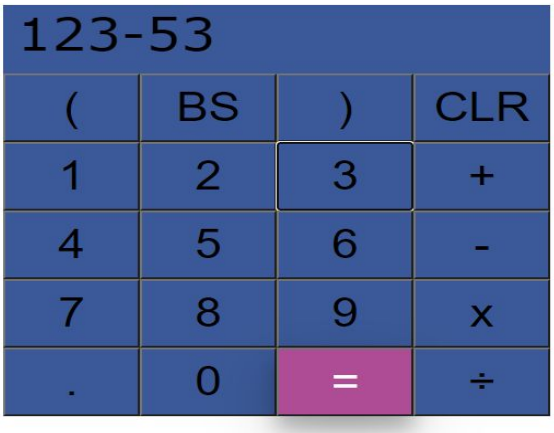
UI DESIGN DOCUMENT

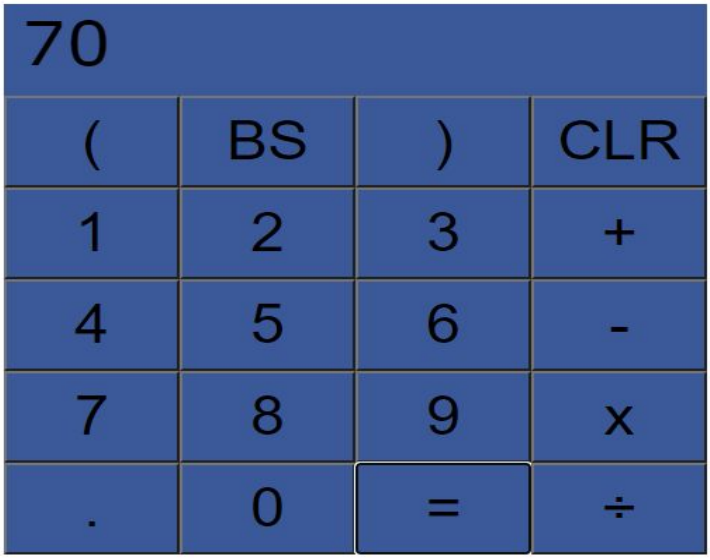




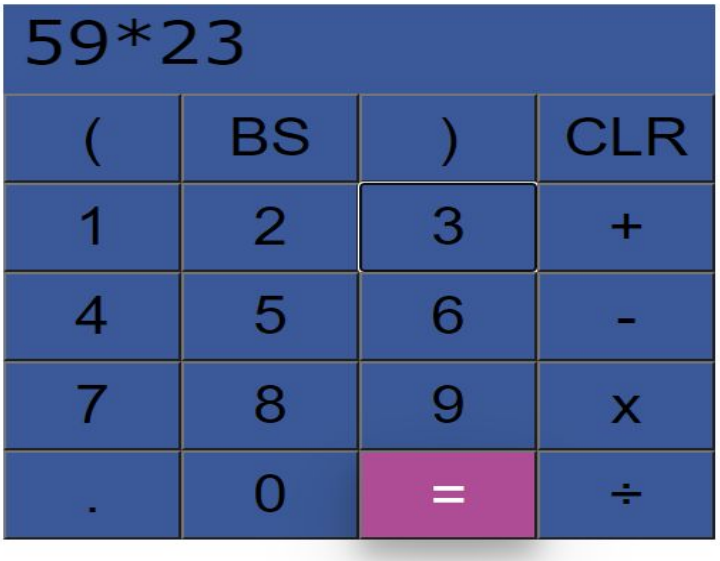
My Calculator



My Calculator



My Calculator



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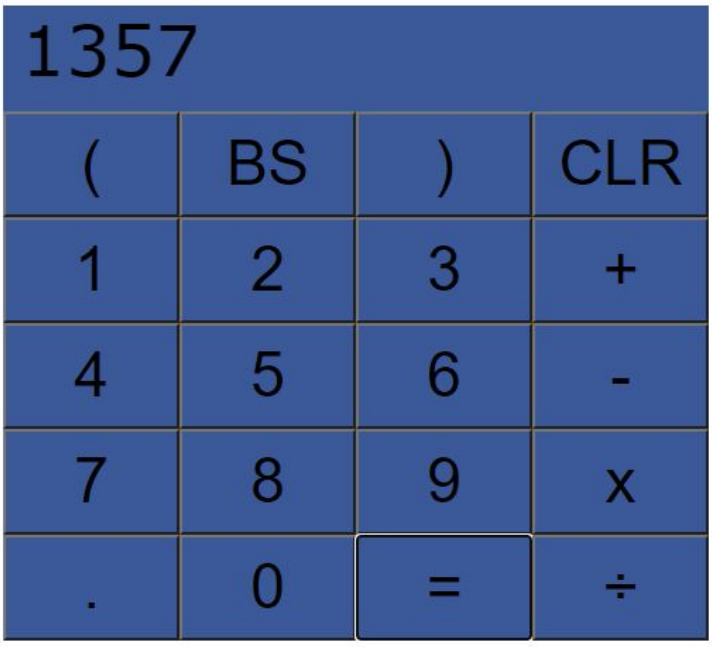

My Calculator

My Calculator

SOURCE CODE GITHUB REPOSITORY LINK
https://github.com/HariPrasad5724/calculatorreact

This calculator application has two components
1.ResultTextComponent.js - to display the result of operation

ResultTextComponent.js

```
import React, {Component} from 'react';

class ButtonComponent extends Component {

    render() {
        return (
            <div className="button">
                <button name="(" onClick={e =>
this.props.onClick(e.target.name)}>(</button>
                <button name="BS" onClick={e =>
this.props.onClick(e.target.name)}>BS</button>
                <button name=")" onClick={e =>
this.props.onClick(e.target.name)}>)</button>
                <button name="CLR" onClick={e =>
this.props.onClick(e.target.name)}>CLR</button><br/>

                <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 ButtonComponent;
```

2.ButtonComponent.js - to display the buttons as keypad design.

ResultTextComponent.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;
```

App.css - to design our components

App.css

```
.App {
  text-align: center;
}

.result {
  height: 70px;
  background-color: #3b5998;
  width: 100%;
}

.result p {
  font-size: 40px;
  margin: 10px;
  border: 1px solid red;
  font-family: Verdana, Geneva, Tahoma, sans-serif;
}

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

.button {
  display: block;
  transition-duration: 0.7s;
}

button {
```

```
  width: 25%;
  height: 60px;
  font-size: 35px;
  background-color: #3b5998;
}

button:hover {
  background-color: #af4c96;
  color: white;
  box-shadow: 0 12px 16px 0 rgba(0,0,0,0.24), 0 17px 50px 0
rgba(0,0,0,0.19);
}

button:active{
  transform: translateY(4px);
}
```

App.js - to display by combining the components and rendering the webpage

App.js

```
import React, { Component } from 'react';
import './App.css';
import ResultComponent from './components/ResultTextComponent';
import ButtonComponent from "./components/ButtonComponent";
class App extends Component {
    constructor(){
        super();
        this.state = {
            result: ""
        }
    }

    onClick = button => {
        if(button === "="){
            this.calculate()
        }
        else if(button === "CLR"){
```

```
            this.reset()
        }
        else if(button === "BS"){
            this.backspace()
        }
        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({
                // eslint-disable-next-line
                result: (eval(checkResult) || "" ) + ""
            })
        } catch (e) {
            this.setState({
                result: "error"
            })
        }
    };

    reset = () => {
        this.setState({
            result: ""
        })
    };

    backspace = () => {
        this.setState({
```

```
            result: this.state.result.slice(0, -1)
        })
    };

    render() {
        return (
                <div className="calculator-body">
                    <h1>My Calculator</h1>
                    <ResultComponent result={this.state.result}/>
                    <ButtonComponent onClick={this.onClick}/>
                </div>
        );
    }
}
export default App;
```