

1. Calculator

Index.html

```
<!DOCTYPE html>
<html lang="en">

    <head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="stylesheet" href="style.css">
        <title>Calculator</title>
    </head>

    <body>

        <body>
            <div class="calculator animate_animated animate_jackInTheBox">
                <input type="text" class="calculator-screen" value="0" disabled />
                <div class="calculator-keys">
                    <div class="row">
                        <button class="all-clear">AC</button>
                        <button class="percentage">%</button>
                        <button class="operator" value="/">&divide;</button>
                    </div>
                    <div class="row">
                        <button class="number" value="7">7</button>
                        <button class="number" value="8">8</button>
                        <button class="number" value="9">9</button>
                        <button class="operator" value="*">&times;</button>
                    </div>
                    <div class="row">
                        <button class="number" value="4">4</button>
                        <button class="number" value="5">5</button>
                        <button class="number" value="6">6</button>
                        <button class="operator" value="-">-</button>
                    </div>
                    <div class="row">
                        <button class="number" value="1">1</button>
                        <button class="number" value="2">2</button>
                        <button class="number" value="3">3</button>
                        <button class="operator" value="+">>+</button>
                    </div>
                    <div class="row">
                        <button class="number zero-btn" value="0">0</button>
                        <button class="decimal" value=".">>.</button>
                    </div>
                </div>
            </div>
        </body>
    </html>
```

```

<button class="equal-sign"><=

```

Style.css

```

*, *::after, *::before {
    box-sizing: border-box;
    margin: 0;
    padding: 0;
    font-family: "Spartan", sans-serif;
    font-size: 32px;
}

:root {
    --bg-theme: hsl(222, 26%, 31%);
    --bg-toggle-keypad: hsl(223, 31%, 20%);
    --bg-screen: hsl(224, 36%, 15%);
    --bg-del-reset-key: hsl(225, 21%, 49%);
    --bg-keys: hsl(30, 25%, 89%);
    --bg-result-toggle-key: hsl(6, 63%, 50%);
    --hover-equal-sign: hsl(6, 70%, 34%);
    --text-color: hsl(221, 14%, 31%);
}

body {
    height: 100vh;
    background-color: var(--bg-theme);
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
}

.calculator {
    text-align: center;
    width: 400px;
}

.calculator-screen {

```

```
width: 100%;  
height: 100px;  
background-color: var(--bg-screen);  
color: #fff;  
text-align: right;  
font-size: 36px;  
border: none;  
padding: 0 20px;  
border-radius: 10px;  
margin-bottom: 15px;  
}  
  
.calculator-keys {  
width: 100%;  
background-color: var(--bg-toggle-keypad);  
padding: 15px 10px;  
border-radius: 10px;  
}  
  
.row {  
display: flex;  
}  
  
button {  
height: 50px;  
border: 1px solid black;  
font-size: 32px;  
width: 25%;  
outline: none;  
border-radius: 5px;  
background-color: var(--bg-keys);  
color: var(--text-color);  
}  
  
.all-clear,  
.zero-btn {  
width: 50%;  
}  
  
.operator {  
background-color: var(--bg-del-reset-key);  
color: #fff;  
}  
  
.equal-sign {  
background-color: var(--bg-result-toggle-key);  
color: #fff;  
}
```

```

button:hover {
background-color: darkgray;
}

.operator:hover {
background-color: var(--bg-toggle-keypad);
}

.equal-sign:hover {
background-color: var(--hover-equal-sign);
}

```

App.js

```

let prevNumber = "";
let calculationOperator = "";
let currentNumber = "0";

const calculatorScreen = document.querySelector(".calculator-screen");
function updateScreen(number) {

    calculatorScreen.value = number;
}

const numbers = document.querySelectorAll(".number");
numbers.forEach(function (number) {

    number.addEventListener("click", function (event) {

        inputNumber(event.target.value);
        updateScreen(currentNumber);
    });
});

function inputNumber(number) {
    if (currentNumber === "0") {

        currentNumber = number;
    } else {
        currentNumber += number;
    }
}

```

```

const operators = document.querySelectorAll(".operator");
operators.forEach(function (operator) {
operator.addEventListener("click", function (event) {
    inputOperator(event.target.value);
});
});
});

function inputOperator(operator) {
if (calculationOperator === "") {
    prevNumber = currentNumber;
}
calculationOperator = operator;
currentNumber = "0";
}

const equalSign = document.querySelector(".equal-sign");
equalSign.addEventListener("click", function () {
    calculate();
    updateScreen(currentNumber);
});

function calculate() {
let result = "";
switch (calculationOperator) {
    case "+":
result = parseFloat(prevNumber) + parseFloat(currentNumber);
        break;
    case "-":
result = parseFloat(prevNumber) - parseFloat(currentNumber);
        break;
    case "*":
result = parseFloat(prevNumber) * parseFloat(currentNumber);
        break;
    case "/":
result = parseFloat(prevNumber) / parseFloat(currentNumber);
        break;
    default:
        break;
}
currentNumber = result;
calculationOperator = "";
}

```

```
function clearAll() {
    prevNumber = "";
    calculationOperator = "";
    currentNumber = "0";
}

const clearBtn = document.querySelector(".all-clear");
clearBtn.addEventListener("click", function () {
    clearAll();
    updateScreen(currentNumber);
});

const decimal = document.querySelector(".decimal");
decimal.addEventListener("click", function (event) {

    inputDecimal(event.target.value);
    updateScreen(currentNumber);
});

inputDecimal = function (dot) {
if (currentNumber.includes(".")) {
    return;
}
currentNumber += dot;
};

const percentage = document.querySelector(".percentage");
percentage.addEventListener("click", function (event) {
    inputPercentage(event.target.value);
    updateScreen(currentNumber);
});

inputPercentage = function (percentage) {
if (currentNumber.includes("%")) {
    return;
}
currentNumber = currentNumber / 100;
};
```