Minor Project-Calculator

HTML Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Calculator</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" href="./style.css">

</head>
<body>
    <h2>Calculator</h2>
    <div class="calculator text-center">
        <input type="text" class="form-control display" id="display" disabled>
        <div class="mt-2 row">
            <button class="btn btn-danger" onclick="clearDisplay()">AC</button>
            <button class="btn btn-secondary" onclick="appendValue('%')">%</button>
            <button class="btn btn-secondary" onclick="squareNumber()">x²</button>
            <button class="btn btn-warning" onclick="appendValue('/')">/</button>
        </div>
        <div class="mt-2 row">
            <button class="btn btn-light" onclick="appendValue('7')">7</button>
            <button class="btn btn-light" onclick="appendValue('8')">8</button>
            <button class="btn btn-light" onclick="appendValue('9')">9</button>
            <button class="btn btn-warning" onclick="appendValue('*')">*</button>
        </div>
        <div class="mt-2 row">
            <button class="btn btn-light" onclick="appendValue('4')">4</button>
            <button class="btn btn-light" onclick="appendValue('5')">5</button>
            <button class="btn btn-light" onclick="appendValue('6')">6</button>
            <button class="btn btn-warning" onclick="appendValue('-')">-</button>
        </div>
        <div class="mt-2 row">
            <button class="btn btn-light" onclick="appendValue('1')">1</button>
            <button class="btn btn-light" onclick="appendValue('2')">2</button>
```

```html
        <button class="btn btn-light" onclick="appendValue('3')">3</button>
        <button class="btn btn-warning" onclick="appendValue('+')">+</button>
      </div>
      <div class="mt-2 row">
        <button class="btn btn-info" onclick="toggleTrigButtons()">Trig</button>
        <button class="btn btn-light" onclick="appendValue('0')">0</button>
        <button class="btn btn-light" onclick="appendValue('.')">.</button>
        <button class="btn btn-success" onclick="calculate()">=</button>
      </div>
      <div class="mt-2 row trig-buttons" id="trig-buttons">
        <div>
        <button class="btn btn-info" onclick="calculateTrig('sin')">sin</button>
        <button class="btn btn-info" onclick="calculateTrig('cos')">cos</button>
        <button class="btn btn-info" onclick="calculateTrig('tan')">tan</button>
      </div>
      <div>
        <button class="btn btn-info" onclick="calculateTrig('asin')">sin⁻¹</button>
        <button class="btn btn-info" onclick="calculateTrig('acos')">cos⁻¹</button>
        <button class="btn btn-info" onclick="calculateTrig('atan')">tan⁻¹</button>
      </div>
      </div>
      </div>
    </div>
    <script src="./script.js"></script>
</body>
</html>
```

CSS Code:

```css
body {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: rgb(166, 215, 236);
}
.calculator {
    width: 400px;
    background: white;
    padding: 20px;
    border-radius: 10px;
```

```css
        box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
}
.btn {
        width: 65px;
        height: 65px;
        font-size: 20px;
}
.display {
        height: 60px;
        text-align: right;
        font-size: 24px;
        margin-bottom: 10px;
        padding-right: 10px;
}
.row {
        display: flex;
        justify-content: center;
}
.trig-buttons {
        display: none;
}
h2{
        position: absolute;
        top: 35px;
        left: 35px;
}
```

Java Script code:

```javascript
let display = document.getElementById("display");
let trigButtons = document.getElementById("trig-buttons");

function appendValue(value) {
        display.value += value;
}

function clearDisplay() {
        display.value = "";
}
```

```javascript
function calculate() {
    try {
        display.value = eval(display.value);
    } catch {
        display.value = "Error";
    }
}

function squareNumber() {
    try {
        display.value = Math.pow(eval(display.value), 2);
    } catch {
        display.value = "Error";
    }
}

function calculateTrig(func) {
    try {
        let value = eval(display.value);
        if (func === 'sin') display.value = Math.sin(value * Math.PI / 180);
        if (func === 'cos') display.value = Math.cos(value * Math.PI / 180);
        if (func === 'tan') display.value = Math.tan(value * Math.PI / 180);
        if (func === 'asin') display.value = Math.asin(value) * 180 / Math.PI;
        if (func === 'acos') display.value = Math.acos(value) * 180 / Math.PI;
        if (func === 'atan') display.value = Math.atan(value) * 180 / Math.PI;
    } catch {
        display.value = "Error";
    }
}

function toggleTrigButtons() {
    if (trigButtons.style.display === "none" || trigButtons.style.display === "") {
        trigButtons.style.display = "flex";
    } else {
        trigButtons.style.display = "none";
    }
}
```