```
<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://fonts.googleapis.com/css2?
family=Dosis:wght@500&family=MuseoModerno:wght@300;400&display=swap"
        rel="stylesheet">
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <link href="https://fonts.googleapis.com/css?
family=Libre+Barcode+128+Text" rel="stylesheet">
    <div id="main">
        <div class="calculator">
            <input type="text" id="screen">
            <div class="rows">

                <div class="calculator__row1">
                    <button class="button accent">(</button>
                    <button class="button accent">)</button>
                    <div class="space"></div>
                    <div class="space"></div>
                    <button class="button" id="clean">AC</button>
                </div>

                <div class="calculator__row2">
                    <button class="button accent">x^</button>
                    <button class="button ">7</button>
                    <button class="button ">8</button>
                    <button class="button ">9</button>
                    <button class="button accent">*</button>
                </div>

                <div class="calculator__row3">
                    <button class="button accent">%</button>
                    <button class="button ">4</button>
                    <button class="button ">5</button>
                    <button class="button ">6</button>
                    <button class="button accent">/</button>
                </div>

                <div class="calculator__row4">
                    <button class="button accent">&radic;<span
                      class="over"></span></button>
                    <button class="button ">1</button>
                    <button class="button ">2</button>
                    <button class="button ">3</button>
                    <button class="button accent">-</button>
                </div>

                <div class="calculator__row5">
                    <div class="space"></div>
```

```
                    <button class="button accent">.</button>
                    <button class="button ">0</button>
                    <button class="button accent">=</button>
                    <button class="button accent">+</button>
                </div>
            </div>
        </div>
    </div>
    <script src="script.js"> </script>
</body>

</html>

body {
    margin: 0 auto;
    text-align: center;
    font-size: 23px;
  }

.main {
max-width: 10%;
}

.button > .over {
text-decoration: overline;
display: inline-block;
position: relative;
top: 3px;
left: -4px;
}

.calculator {
    display: inline-block;
    background: #2b2b2b;
    margin: 1% 0;
    color: #8f95e5;
    border: 3px solid #8f95e5;
    border-radius: 5px;
    box-shadow: 2px 2px 1px 0px #8f95e5;
    max-width: 240px;
}

.calculator .button {
    font-size: x-large;
    width: 2em;
    min-height: 2em;
    margin: 0.8%;
    border-radius: 15%;
    border: 0.08em solid #8f95e5;
    font-family: monospace;
    background: #af92f7;
    box-shadow: 0.03em  0.03em 0.01em 0px #8f95e5;
    color: #573eb1;
}
```

```
.calculator .accent{
    background: #cfd9f7;  background: #cfd9f7;;
}

.calculator .space {
    font-size: x-large;
    width: 2.4em;
    min-height: 2.4em;
    margin: 0.5%;
    border-radius: 15%;
    border: 0.08em solid #2b2b2b;
    background: #2b2b2b;
}

.calculator button:hover,
#backspace:hover {
background: #ffcbda;
color: #f5f49d;
transform: scale(0.9);
border-radius: 20%;
}

.calculator
#clear:hover , #rad:hover  ,#deg:hover{
background: #573eb1!important;
color: #ffffff;
transform: scale(0.9);
border-radius: 20%;
}

.calculator button:focus,
#clear:focus,
#backspace:focus {
outline: none;
}

.button:active,
.button-active {
background: #573eb1;
color: #ffffff;
transform: scale(0.8);
}

#screen{
    border: 3px solid #8f95e5;
    border-radius: 5px;
    width: 80%;
    height: 50px;
    margin : 5%;
    text-align: right;
    overflow: auto;
    overflow-wrap: break-word;
    font-size: 30px;
    font-family: monospace;
    background-color: #cfd9f7;
```

```
    color: #573eb1;
}


#clean {
background: #ffcbda;
color: #573eb1;
}
#clean:hover {
background: #573eb1;
color: #f5f49d;
}
#rad {
background: #cfd9f7;
color: #573eb1;
}
#deg {
background: #cfd9f7;
color: #573eb1;
}

.rows{
    margin: 5%;
}

.calculator__row1,
.calculator__row2,
.calculator__row3,
.calculator__row4,
.calculator__row5 {
display: flex;
margin: 0 auto;
justify-content: space-between;
align-items: center;
font-family: monospace;
}

.calculator__row5 {
margin-bottom: 3%;
}

.footer {

position: absolute;
left: 0;
right: 0;
bottom: 0;
}

var display = document.getElementById("screen");
    var buttons = document.getElementsByClassName("button");

    Array.prototype.forEach.call(buttons, function (button) {
        button.addEventListener("click", function () {
            if (button.textContent ≠ "=" &&
```

```
    button.textContent ≠ "AC" &&
    button.textContent ≠ "*" &&
    button.textContent ≠ "/" &&
    button.textContent ≠ "√" &&
    button.textContent ≠ "+" &&
    button.textContent ≠ "%" &&
    button.textContent ≠ "=" &&
    button.textContent ≠ "-" &&
    button.textContent ≠ "sin" &&
    button.textContent ≠ "cos" &&
    button.textContent ≠ "tan" &&
    button.textContent ≠ "log" &&
    button.textContent ≠ "ln" &&
    button.textContent ≠ "x^" &&
    button.textContent ≠ "x!" &&
    button.textContent ≠ "pi" &&
    button.textContent ≠ "Rad"
    && button.textContent ≠ "Deg") {
    display.value += button.textContent;
} else if (button.textContent ≡ "=") {
    equals();
} else if (button.textContent ≡ "AC") {
    clear();
} else if (button.textContent ≡ "*") {
    multiply();
} else if (button.textContent ≡ "/") {
    divide();
} else if (button.textContent ≡ "+") {
    plus();
} else if (button.textContent ≡ "-") {
    Minus();
} else if (button.textContent ≡ "%") {
    percent();
} else if (button.textContent ≡ "pi") {
    pi();
} else if (button.textContent ≡ "√") {
    squareRoot();
} else if (button.textContent ≡ "sin") {
    sin();
} else if (button.textContent ≡ "cos") {
    cos();
} else if (button.textContent ≡ "tan") {
    tan();
} else if (button.textContent ≡ "log") {
    log();
} else if (button.textContent ≡ "ln") {
    ln();
} else if (button.textContent ≡ "x^") {
    exponent();
} else if (button.textContent ≡ "x!") {
    factorial();
} else if (button.textContent ≡ "Rad") {
    radians();
} else if (button.textContent ≡ "Deg") {
    degrees();
```

```
        }
    });
});


function syntaxError() {
    if (eval(display.value) == SyntaxError || eval(display.value) ==
        ReferenceError || eval(display.value) == TypeError) {
        display.value == "Syntax Error";
    }
}


function equals() {
    if ((display.value).indexOf("^") > -1) {
        var base = (display.value).slice(0,
        (display.value).indexOf("^"));
        var exponent =
         (display.value).slice((display.value).indexOf("^") + 1);
        display.value = eval("Math.pow(" + base + "," + exponent +
         ")");
    } else {
        display.value = eval(display.value)
        checkLength()
        syntaxError()
    }
}

function clear() {
    display.value = "";
}


function multiply() {
    display.value += "*";
}

function divide() {
    display.value += "/";
}
function plus() {
    display.value += "+";
}

function Minus() {
    display.value += "-";
}

function factorial() {
    var number = 1;
    if (display.value === 0) {
        display.value = "1";
    } else if (display.value < 0) {
        display.value = "undefined";
    } else {
```

```
        var number = 1;
        for (var i = display.value; i > 0; i--) {
            number *= i;
        }
        display.value = number;
    }
}

function pi() {
    display.value = (display.value * Math.PI);
}

function square() {
    display.value = eval(display.value * display.value);
}

function squareRoot() {
    display.value = Math.sqrt(display.value);
}

function percent() {
    display.value = display.value / 100;
}

function sin() {
    display.value = Math.sin(display.value);
}


function cos() {
    display.value = Math.cos(display.value);
}

function tan() {
    display.value = Math.tan(display.value);
}

function log() {
    display.value = Math.log10(display.value);
}

function ln() {
    display.value = Math.log(display.value);
}

function exponent() {
    display.value += "^";
}


function radians() {
    display.value = display.value * (Math.PI / 180);
}

function degrees() {
```

```
        display.value = display.value * (180 / Math.PI);
    }
```