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<!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 rel="stylesheet" type="text/css"
        href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
</head>
<style>
  body {
    padding: 0;
    margin: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    user-select: none;
    background: #b3dfec;
  }

  .container {
    margin-left: 1.8em;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 13px 13px 20px #cbced1,
              -13px -13px 20px #ffffff;
  }

  .content {
    width: 100%;
    margin-top: 1.7em;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
  }

  .row button {
    width: 60px;
    height: 30px;
    font-size: 16px;
    border: none;
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    outline: none;
    margin: 5px;
    border-radius: 4px;
    transition: .1s;
    box-shadow: 5px 5px 8px #00000020,
                -5px -5px 8px #ffff;
}

.row button:hover {
    box-shadow: inset 5px 5px 8px rgba(16, 16, 16, .1),
                inset -5px -5px 8px #fff;
    background: #eca8a8;
}

.display #screen {
    margin-bottom: .5em;
    width: auto;
    height: 70px;
    font-size: 35px;
    outline: none;
    border: none;
    text-align: right;
    padding-right: .5em;
    background: #ecf0f3;
    border-radius: 6px;
    box-shadow: inset 8px 8px 8px #cbced1,
                inset -8px -8px 8px #ffffff;
}

#eval {
    background: #33ccff;
    color: #fff;
    box-shadow: inset 5px 5px 8px #66d9ff,
                inset -5px -5px 8px #00ace6;
}

#eval:hover {
    box-shadow: inset 5px 5px 8px #00ace6,
                inset -5px -5px 8px #00ace6;
}

#ac {
    background: #33cc33;
    color: #fff;
}

#ac:hover {
    box-shadow: inset 5px 5px 8px #2eb82e,

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        inset -5px -5px 8px #33cc33;
    }

    #ce {
        background: #6cc8f0;
        color: #fff;
    }

    #ce:hover {
        box-shadow: inset 5px 5px 8px #a1d5f3,
                    inset -5px -5px 8px #49b7e6;
    }
</style>

<body>

    <div class="container">
        <div class="display">
            <input id="screen" type="text" placeholder="0">
        </div>

        <div class="btns">
            <div class="row">
                <button id="ce" onclick="backspc()">CE</button>
                <button onclick="fact()">x!</button>
                <button class="btn">(</button>
                <button class="btn">)</button>
                <button class="btn">%</button>
                <button id="ac" onclick="screen.value=''>AC</button>
            </div>

            <div class="row">
                <button onclick="sin()">sin</button>
                <button onclick="pi()">π</button>
                <button class="btn">7</button>
                <button class="btn">8</button>
                <button class="btn">9</button>
                <button class="btn">÷</button>
            </div>

            <div class="row">
                <button onclick="cos()">cos</button>
                <button onclick="log()">log</button>
                <button class="btn">4</button>
                <button class="btn">5</button>
                <button class="btn">6</button>
                <button class="btn">x</button>
            </div>
        </div>
    </div>

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        <div class="row">
            <button onclick="tan()">tan</button>
            <button onclick="sqrt()">√</button>
            <button class="btn">1</button>
            <button class="btn">2</button>
            <button class="btn">3</button>
            <button class="btn">-</button>
        </div>

        <div class="row">
            <button onclick="e()">e</button>
            <button onclick="pow()">x <span style="position: relative;
bottom: .4em; right: .1em;">y</span>
            </button>
            <button class="btn">0</button>
            <button class="btn">.</button>
            <button id="eval"
onclick="screen.value=eval(screen.value)">=</button>
            <button class="btn">+</button>
        </div>
    </div>
</div>
</body>
<script>
    var screen = document.querySelector('#screen');
    var btn = document.querySelectorAll('.btn');

    /*===== For getting the value of btn, Here we use for loop
=====*/
    for (item of btn) {
        item.addEventListener('click', (e) => {
            btntext = e.target.innerText;

            if (btntext == '×') {
                btntext = '*';
            }

            if (btntext == '÷') {
                btntext = '/';
            }
            screen.value += btntext;
        });
    }

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

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

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

function pow() {
    screen.value = Math.pow(screen.value, 2);
}

function sqrt() {
    screen.value = Math.sqrt(screen.value, 2);
}

function log() {
    screen.value = Math.log(screen.value);
}

function pi() {
    screen.value = 3.14159265359;
}

function e() {
    screen.value = 2.71828182846;
}

function fact() {
    var i, num, f;
    f = 1
    num = screen.value;
    for (i = 1; i <= num; i++) {
        f = f * i;
    }

    i = i - 1;

    screen.value = f;
}

function backspc() {
    screen.value = screen.value.substr(0, screen.value.length - 1);
}
</script>

</html>
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