

EJERCICIO COMPLEMENTARIO 2

```
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=
  <title>Calculadora </title>
  <link rel="stylesheet" href="Calculadora.css">
</head>
<body>
  <div class="calculadora">
    <input type="text" id="inputValor" >
    <div class="botones">
      <button data-valor="1">1</button>
      <button data-valor="2">2</button>
      <button data-valor="3">3</button>
      <button data-op="sumar">+</button>
      <button data-valor="4">4</button>
      <button data-valor="5">5</button>
      <button data-valor="6">6</button>
      <button data-op="restar">-</button>
      <button data-valor="7">7</button>
      <button data-valor="8">8</button>
      <button data-valor="9">9</button>
      <button data-op="multiplicar">*</button>
      <button data-op="inversa">1/x</button>
      <button data-valor="0">0</button>
      <button data-op="cuadrado">x^2</button>
      <button data-op="raiz">√</button>
      <button data-op="dividir">/</button>
      <button data-op="residuo">%</button>
      <button data-op="igual">=</button>
      <button data-op="igual" id="reinicio">C</button>
    </div>
  </div>
  <script src="Calculadora.js"></script>
</body>
</html>
```

```
1  body {
2      font-family: Arial, sans-serif;
3      display: flex;
4      justify-content: center;
5      align-items: center;
6      height: 100vh;
7      background-color: #ffffff;
8  }
9
10 .calculadora {
11     background-color: #ffffff;
12     border-radius: 10px;
13     box-shadow: 0 0 10px rgba(10, 233, 233, 0.2);
14     overflow: hidden;
15 }
16
17 #inputValor {
18
19     padding: 20px;
20     font-size: 1.5rem;
21     text-align: right;
22 }
23
24 .botones {
25     display: grid;
26     grid-template-columns: repeat(4, 1fr);
27 }
28
29 button {
30     padding: 20px;
31     font-size: 1.2rem;
32     border: none;
33     outline: none;
34     cursor: pointer;
35     transition: background-color 0.3s;
36 }
37
38 button:hover {
39     background-color: #f159b7;
40 }
41
```

```
let valorActual = "";
let valorAnterior = "";
let operacion = null;

const inputValor = document.getElementById("inputValor");

document.querySelectorAll(".botones button").forEach(button => {
  button.addEventListener("click", function(e) {
    if (e.target.dataset.valor) {
      valorActual += e.target.dataset.valor;
      inputValor.value = valorActual;
    } else if (e.target.dataset.op) {
      handleOperation(e.target.dataset.op);
    }
  });
});

document.getElementById("reinicio").addEventListener('click', function() {
  document.getElementById("inputValor").value = ""
});

function handleOperation(op) {
  if (operacion && valorAnterior) {
    valorActual = realizarOperacion(operacion, valorAnterior, valorActual);
    inputValor.value = valorActual;
    valorAnterior = "";
  } else {
    valorAnterior = valorActual;
    valorActual = "";
  }

  switch (op) {
    case "igual":
      operacion = null;
      break;
    default:
      operacion = op;
  }
}

function realizarOperacion(op, a, b) {
  a = parseFloat(a);
  b = parseFloat(b);

  switch (op) {
    case "sumar":
      return a + b;
    case "restar":
      return a - b;
    case "multiplicar":
      return a * b;
    case "dividir":
      return a / b;
    case "residuo":
      return a % b;
    case "inversa":
      return 1 / a;
    case "cuadrado":
      return a ** 2;
    case "raiz":
      return Math.sqrt(a);
    default:
      return b;
  }
}
```

