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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>Advanced Arithmetic Calculator</title>
  <style>
    /* Calculator container styling */
    .calculator {
      width: 320px;
      margin: 0 auto;
      padding: 20px;
      background-color: #f4f4f4;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      font-family: Arial, sans-serif;
    }
    /* Display styling */
    .display {
      width: 100%;
      padding: 15px;
      font-size: 24px;
      text-align: right;
      border: none;
      outline: none;
      background-color: #e0e0e0;
      border-radius: 5px;
      margin-bottom: 10px;
    }
    /* Button grid styling */
    .buttons {
      display: grid;
      grid-template-columns: repeat(4, 1fr);
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    gap: 10px;
  }
  /* Button styling */
  .button {
    padding: 15px;
    font-size: 18px;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.2s;
  }
  /* Specific button colors */
  .button-number { background-color: #4CAF50; }
  .button-operator { background-color: #FF9800; }
  .button-equal { background-color: #009688; grid-column: span 2; }
  .button-clear { background-color: #f44336; grid-column: span 2; }
  .button-sqrt { background-color: #3F51B5; }
  .button-square { background-color: #9C27B0; }
  .button-percent { background-color: #FFC107; }
  .button-backspace { background-color: #FF5722; }
  .button-inverse { background-color: #673AB7; }
  /* Button hover effect */
  .button:hover { opacity: 0.8; }
</style>
</head>
<body>

<div class="calculator">
  <input type="text" id="display" class="display" disabled>
```

```
<div class="buttons">
  <!-- Number buttons -->
  <button class="button button-number" onclick="appendToDisplay('7')">7</button>
  <button class="button button-number" onclick="appendToDisplay('8')">8</button>
  <button class="button button-number" onclick="appendToDisplay('9')">9</button>
  <button class="button button-operator" onclick="appendToDisplay('/')">÷</button>

  <button class="button button-number" onclick="appendToDisplay('4')">4</button>
  <button class="button button-number" onclick="appendToDisplay('5')">5</button>
  <button class="button button-number" onclick="appendToDisplay('6')">6</button>
  <button class="button button-operator" onclick="appendToDisplay('*')">x</button>

  <button class="button button-number" onclick="appendToDisplay('1')">1</button>
  <button class="button button-number" onclick="appendToDisplay('2')">2</button>
  <button class="button button-number" onclick="appendToDisplay('3')">3</button>
  <button class="button button-operator" onclick="appendToDisplay('-')">-</button>

  <button class="button button-number" onclick="appendToDisplay('0')">0</button>
  <button class="button button-number" onclick="appendToDisplay('.')">.</button>
  <button class="button button-equal" onclick="calculateResult()">=</button>
  <button class="button button-operator" onclick="appendToDisplay('+')">+</button>

  <!-- Additional operation buttons -->
  <button class="button button-sqrt" onclick="calculateSqrt()">√</button>
  <button class="button button-square" onclick="calculateSquare()">x2</button>
  <button class="button button-percent" onclick="appendToDisplay('%')">%</button>
  <button class="button button-backspace" onclick="backspace()">⌫ </button>
```

```
<button class="button button-inverse" onclick="calculateInverse()">1/x</button>  
<button class="button button-clear" onclick="clearDisplay()">C</button>  
</div>  
</div>
```

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<script>  
// Append numbers or operators to the display  
function appendToDisplay(value) {  
  document.getElementById('display').value += value;  
}  
  
// Calculate the result  
function calculateResult() {  
  try {  
    document.getElementById('display').value = eval(document.getElementById('display').value);  
  } catch (error) {  
    document.getElementById('display').value = "Error";  
  }  
}  
  
// Calculate square root  
function calculateSqrt() {  
  let value = document.getElementById('display').value;  
  if (value) {  
    document.getElementById('display').value = Math.sqrt(eval(value));  
  }  
}  
  
// Calculate square
```

```
function calculateSquare() {
  let value = document.getElementById('display').value;
  if (value) {
    document.getElementById('display').value = Math.pow(eval(value), 2);
  }
}
```

```
// Calculate inverse (1/x)
function calculateInverse() {
  let value = document.getElementById('display').value;
  if (value) {
    document.getElementById('display').value = 1 / eval(value);
  }
}
```

```
// Clear the display
function clearDisplay() {
  document.getElementById('display').value = "";
}
```

```
// Backspace function
function backspace() {
  let display = document.getElementById('display').value;
  document.getElementById('display').value = display.slice(0, -1);
}
```

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</script>
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<p><center><a href="https://www.calculatorshubs.com/">Calculatorshubs</a></center></p>
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</body>
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</html>