



Title: Simple Calculator Using HTML, CSS, and JavaScript

Subtitle: A Step-by-Step Guide

By - Sneha Chaudhary

INTRODUCTION

What is a Calculator?

-> A device for performing mathematical calculations.

Why Build One?

-> Learn web development basics: HTML, CSS, and JavaScript.

Technologies Used

- **HTML:** Structure of the calculator
- **CSS:** Styling the calculator
- **JavaScript:** Functionality and interactivity

HTML Structure

```
<!-- INTERMEDIATE => CALCULATOR -->
<!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" href="style.css">
</head>
<body>
  <div class="container">
    <div class="calculator">
      <input type="text" disabled id="display">
      <div class="buttons">
        <button onclick="Clear()">C</button>
        <button onclick="DelChar()">DEL</button>
        <button onclick="appendOperator('/')">/</button>
        <button onclick="appendNumber('*')">*</button>
        <button onclick="appendNumber('7')">7</button>
        <button onclick="appendNumber('8')">8</button>
        <button onclick="appendNumber('9')">9</button>
        <button onclick="appendNumber('-')">-</button>
        <button onclick="appendNumber('4')">4</button>
        <button onclick="appendNumber('5')">5</button>
        <button onclick="appendNumber('6')">6</button>
        <button onclick="appendNumber('+)">+</button>
        <button onclick="appendNumber('1)">1</button>
        <button onclick="appendNumber('2)">2</button>
        <button onclick="appendNumber('3)">3</button>
        <button onclick="Calculate()">=</button>
        <button onclick="appendNumber('0)">0</button>
      </div>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

CSS Styling

```
body {  
  font-family: Arial, sans-serif;  
  background-color: #f4f4f4;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 100vh;  
  margin: 0;  
}  
  
.calculator {  
  background-color: #ffffff;  
  border-radius: 10px;  
  box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);  
  padding: 20px;  
  width: 300px;  
}  
  
#display {  
  width: 100%;  
  height: 40px;  
  text-align: right;  
  font-size: 24px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
  margin-bottom: 20px;  
  padding: 10px;  
}  
  
.container {  
  width: 100%;  
  height: 100vh;  
  background-color: #e3f9ff;  
  display: flex;  
  align-items: center;  
  justify-content: center;  
}  
  
.buttons {  
  display: grid;  
  grid-template-columns: repeat(4, 1fr);  
  gap: 10px;  
}  
  
.calculator {  
  background-color: #3a4452;  
  padding: 30px;  
  padding-right: 50px;  
  border-radius: 10px;  
}  
  
input {  
  
  border: 0;  
  outline: 0;  
  width: 60px;  
  height: 60px;  
  border-radius: 10px;  
  box-shadow: -8px -8px 15px rgba(255,255,255,0.1),5px 5px 15px rgba(0,0,0,0.2);  
  background-color: transparent;  
  font-size: 20px;  
  color: #fff;  
  cursor: pointer;  
}
```

```
.calculator {  
  background-color: #3a4452;  
  padding: 30px;  
  padding-right: 50px;  
  border-radius: 10px;  
}  
  
input {  
  
  border: 0;  
  outline: 0;  
  width: 60px;  
  height: 60px;  
  border-radius: 10px;  
  box-shadow: -8px -8px 15px rgba(255,255,255,0.1),5px 5px 15px rgba(0,0,0,0.2);  
  background-color: transparent;  
  font-size: 20px;  
  color: #fff;  
  cursor: pointer;  
}  
  
button {  
  border-radius: 10px;  
  box-shadow: -8px -8px 15px rgba(255,255,255,0.1),5px 5px 15px rgba(0,0,0,0.2);  
  background-color: transparent;  
  font-size: 20px;  
  color: #fff;  
  cursor: pointer;  
  margin: 10px;  
  height: 50px;  
  font-size: 18px;  
  border: none;  
}  
  
button:hover {  
  background-color: #0056b3;  
}  
  
button:active {  
  background-color: #004494;  
}  
  
button:nth-child(3),  
button:nth-child(4),  
button:nth-child(8),  
button:nth-child(12) {  
  color: #33ffd8;  
}
```

JavaScript Functionality

```
let display= document.getElementById('display');

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

function DelChar(){
display.value=display.value.slice(0,-1);
}

function appendNumber(number){
display.value+=number;
}

function Calculate(){
display.value=eval(display.value);
}

function appendOperator(operator){
display.value+=operator;
}
```

Full Code Example



Working



Features

- ▶ Basic arithmetic operations: addition, subtraction, multiplication, division.
- ▶ Clear button to reset the input.
- ▶ Responsive design for various screen sizes.



Thank-You