

# BASIC CALCULATOR PROJECT

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**Branch:** Computer Science & Engineering

**Project Type:** Mini Project

**Technologies Used:** HTML, CSS, JavaScript

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## Aim

To develop a basic calculator using web technologies that can perform simple arithmetic operations such as addition, subtraction, multiplication, and division.

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## Objectives

- Create a user-friendly interface for calculations
  - Perform basic arithmetic operations
  - Implement the calculator using HTML, CSS, and JavaScript
  - Learn event handling and DOM manipulation in JavaScript
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## Software Requirements

- OS: Windows / Linux
  - Browser: Google Chrome
  - Code Editor: VS Code / Notepad
  - Technologies: HTML, CSS, JavaScript
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## Project Description

The Basic Calculator is a web-based application that allows users to perform simple calculations.

It has a clean interface with buttons for numbers and operations. JavaScript is used to perform calculations and update the display dynamically.

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## index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Basic Calculator</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="calculator">
  <input type="text" id="display" disabled>
  <div class="buttons">
    <button onclick="clearDisplay()">C</button>
    <button onclick="appendValue('7')">7</button>
    <button onclick="appendValue('8')">8</button>
    <button onclick="appendValue('9')">9</button>
    <button onclick="appendValue('/')">/</button>
    <button onclick="appendValue('4')">4</button>
    <button onclick="appendValue('5')">5</button>
    <button onclick="appendValue('6')">6</button>
    <button onclick="appendValue('*')">*</button>
    <button onclick="appendValue('1')">1</button>
    <button onclick="appendValue('2')">2</button>
    <button onclick="appendValue('3')">3</button>
    <button onclick="appendValue('-')">-</button>
    <button onclick="appendValue('0')">0</button>
    <button onclick="appendValue('.')">.</button>
    <button onclick="calculateResult()">=</button>
    <button onclick="appendValue('+')">+</button>
  </div>
</div>
<script src="script.js"></script>
</body>
</html>
```

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## style.css

```
body {
  font-family: Arial, sans-serif;
```

```
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background: #f2f2f2;
}
.calculator {
    background: #fff;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0px 0px 10px #aaa;
}
#display {
    width: 100%;
    height: 40px;
    margin-bottom: 10px;
    text-align: right;
    padding: 5px;
    font-size: 18px;
}
button {
    width: 50px;
    height: 50px;
    margin: 3px;
    font-size: 18px;
    cursor: pointer;
}
```

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## script.js

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

```
function appendValue(val) {
    display.value += val;
}
```

```
function clearDisplay() {
    display.value = "";
}
```

```
function calculateResult() {
    try {
```

```
        display.value = eval(display.value);  
    } catch (e) {  
        display.value = 'Error';  
    }  
}
```

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## Conclusion

The Basic Calculator project demonstrates a simple yet functional web-based calculator. It helps in understanding HTML, CSS layout, DOM manipulation, and JavaScript logic for arithmetic operations.

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