

# Calculator report

This report provides an overview of my second project (INTERMEDIATE) i.e. a simple calculator made with HTML, CSS and JavaScript. It includes the code structure, styling and functions used to formulate the calculator.

## **Contents:**

1. Introduction
2. HTML structure
3. CSS styling
4. JavaScript functionality
5. Features
6. Screenshots

### **1. Introduction**

- Project overview: briefly describe the usage of the calculator.
- Technologies used: HTML, CSS and JavaScript

### **2. HTML structure**

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-
scale=1.0">

  <link rel="stylesheet" href="styles.css">

  <title>Calculator</title>

</head>

<body>

  <div class="calculator">

    <input type="text" id="display" disabled>

    <div class="buttons">

      <button onclick="clearDisplay()">C</button>
```

```
<button onclick="appendToDisplay('7')">7</button>
<button onclick="appendToDisplay('8')">8</button>
<button onclick="appendToDisplay('9')">9</button>
<button onclick="appendToDisplay('/')">/</button>
<button onclick="appendToDisplay('4')">4</button>
<button onclick="appendToDisplay('5')">5</button>
<button onclick="appendToDisplay('6')">6</button>
<button onclick="appendToDisplay('')"></button>
<button onclick="appendToDisplay('1')">1</button>
<button onclick="appendToDisplay('2')">2</button>
<button onclick="appendToDisplay('3')">3</button>
<button onclick="appendToDisplay('-')">-</button>
<button onclick="appendToDisplay('0')">0</button>
<button onclick="calculate()">=</button>
<button onclick="appendToDisplay('+')">+</button>
</div>
</div>
<script src="script.js"></script>
</body>
</html>
```

### 3. CSS styling

```
body{
  font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #080808;
}
```

```
.calculator {  
    border: 1px solid #ccc;  
    border-radius: 8px;  
    padding: 20px;  
    background-color: white;  
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```

```
#display {  
    width: 100%;  
    height: 40px;  
    font-size: 24px;  
    text-align: right;  
    margin-bottom: 10px;  
    padding: 5px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
}
```

```
.buttons {  
    display: grid;  
    grid-template-columns: repeat(4, 1fr);  
    gap: 10px;  
}
```

```
button {  
    padding: 20px;  
    font-size: 18px;
```

```
border: none;
border-radius: 5px;
background-color: rgb(0, 128, 0);
color: white;
cursor: pointer;
transition: background-color 0.3s;
}
```

```
button:hover {
    background-color: rgb(1, 71, 1);
}
```

#### 4. JavaScript functionality

```
function appendToDisplay(value) {
    document.getElementById('display').value += value;
}
```

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

```
function calculate() {
    const display = document.getElementById('display');
    try {
        display.value = eval(display.value);
    } catch (error) {
        display.value = 'Error';
    }
}
```

## 5. Features

- Easy access to numbers
- C button for clearing output
- User friendly
- Simple to use
- Does simple arithmetic operations
- Catchy user interface

## 6.Screenshots

