

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>Mobile Phone Calculator</title>

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

</head>

<body>
```

```
<div class="calculator">  
    <input type="text" id="display" disabled>  
    <div class="buttons">  
        <button onclick="clearDisplay()" class="function">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="appendToDisplay('.')">. </button>  
        <button onclick="appendToDisplay('pi')">π</button>  
        <button class="equals" onclick="calculate()">=</button>  
        <button onclick="appendToDisplay('+')">+</button>  
        <button onclick="appendToDisplay('%')">%</button>  
        <button onclick="appendToDisplay('**')">x2</button>  
        <button onclick="appendToDisplay('v')">√</button>  
        <button onclick="appendToDisplay('(')">(</button>  
        <button onclick="appendToDisplay(')')">)</button>  
    </div>  
</div>
```

```
<script src="k.js"></script>  
</body>  
</html>
```

3 css styling

```
body {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    background-color: #1a1a1a;  
    font-family: 'Arial', sans-serif;  
}
```

```
.calculator {  
    background: black;  
    border-radius: 10px;  
    box-shadow: 0 5px 15px rgba(0, 0, 0, 0.5);  
    padding: 20px;  
    width: 320px;  
}
```

```
#display {  
    width: 100%;  
    height: 50px;  
    font-size: 24px;  
    text-align: right;  
    padding: 10px;  
    border: 2px solid orange;
```

```
border-radius: 5px;  
box-sizing: border-box;  
background-color: #333;  
color: white;  
}  
  
.buttons {  
display: grid;  
grid-template-columns: repeat(4, 1fr);  
gap: 5px; /* Small gaps for better touch usability */  
}  
  
button {  
height: 60px;  
font-size: 20px;  
border: none;  
border-radius: 5px;  
background-color: orange;  
color: black;  
cursor: pointer;  
transition: background-color 0.3s;  
}  
  
button:hover {  
background-color: #ff8c00;  
}  
  
.function {  
background-color: #ff5722; /* Different color for function buttons */
```

```
}

.function:hover {
    background-color: #e64a19;
}

>equals {
    grid-column: span 2; /* Equals button spans two columns */
    background-color: #ff5722;
}

>equals:hover {
    background-color: #e64a19;
}
```

4 java script

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

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

function calculate() {
    const display = document.getElementById('display');
    try {
```

```

const expression = display.value.replace(/\x2/g, '**2').replace(/\V/g,
'Math.sqrt').replace(/\pi/g, Math.PI);

display.value = eval(expression);

} catch (error) {

display.value = 'Error';

}

}

```

Features

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

6. Screenshots

