Calculator Project Documentation

Introduction

The calculator project is a simple, interactive web-based calculator built using HTML, CSS, and JavaScript. It provides basic arithmetic operations and includes a sleek, modern UI.

Technologies Used

- HTML: For structuring the calculator.
- CSS: For styling and designing a modern UI.
- JavaScript: For handling logic and user interactions.

Project Files

- 1. HTML File (index.html)
- 2. CSS File (style.css)
- 3. JavaScript File (script.js)

HTML Structure

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <meta http-equiv="X-UA-Compatible" content="IE=edge" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <link rel="stylesheet" href="style.css" />
   <title>Calculator</title>
  </head>
   <div class="container">
     <div class="calculator">
       <input type="text" id="inputBox" placeholder="0" />
         <button class="button operator">AC</button>
         <button class="button operator">DEL</button>
         <button class="button operator">%</button>
          <button class="button operator">/</button>
       </div>
         <button class="button">7</button>
          <button class="button">8</button>
         <button class="button">9</button>
         <button class="button operator">*</button>
        </div>
         <button class="button">4</button>
          <button class="button">5</button>
          <button class="button">6</button>
          <button class="button operator">-</button>
```

CSS Styling

```
🗾 style.css > ધ body
      @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@500&display=swap');
          margin: 0;
          padding: 0;
          box-sizing: border-box;
          font-family: 'Poppins', sans-serif;
      body{
          width: 100%;
          height: 100vh;
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          display: flex;
          justify-content: center;
          align-items: center;
          background: linear-gradient(45deg, □#0a0a0a, □#3a4452);
      .calculator{
          border: 1px solid □#717377;
          padding: 20px;
          border-radius: 16px;
          background: transparent;
          box-shadow: 0px 3px 15px □rgba(113, 115, 119, 0.5);
      input{
          width: 320px;
          border: none;
```

JavaScript Functionality

```
us script.js > ♥ arr.forEach() callback > ♥ button.addEventListener('click') callback
      let input = document.getElementById('inputBox');
      let buttons = document.querySelectorAll('button');
      let string = "";
      let arr = Array.from(buttons);
      arr.forEach(button => {
          button.addEventListener('click', (e) =>{
               if(e.target.innerHTML == '='){
                   string = eval(string);
                   input.value = string;
 10
               else if(e.target.innerHTML == 'AC'){
                   string = "";
                   input.value = string;
               else if(e.target.innerHTML == 'DEL'){
                   string = string.substring(0, string.length-1);
                   input.value = string;
                   string += e.target.innerHTML;
                   input.value = string;
```

Features Implemented :-

- ✓• Basic arithmetic operations (+, -, *, /, %)
- ✓ Clear input (AC button)
- ✓• Delete last entry (DEL button)
- ✓ Real-time input display

Project Output :-



Conclusion:-

This project demonstrates how to build a functional and stylish calculator using HTML, CSS, and JavaScript. The logic implementation ensures smooth operations while maintaining a clean user experience.