

INTRODUCTION:

- Name: SHIVAM GUPTA
- University Roll No: 2300290120232
- Branch: Computer Science
- Year: 2
- Section: D

SIMPLE CALCULATOR

This is a basic calculator application built using HTML, CSS, and JavaScript.



DESCRIPTION

This project is a basic calculator application built with HTML, CSS, and JavaScript.

It performs simple arithmetic operations and offers a user-friendly interface.

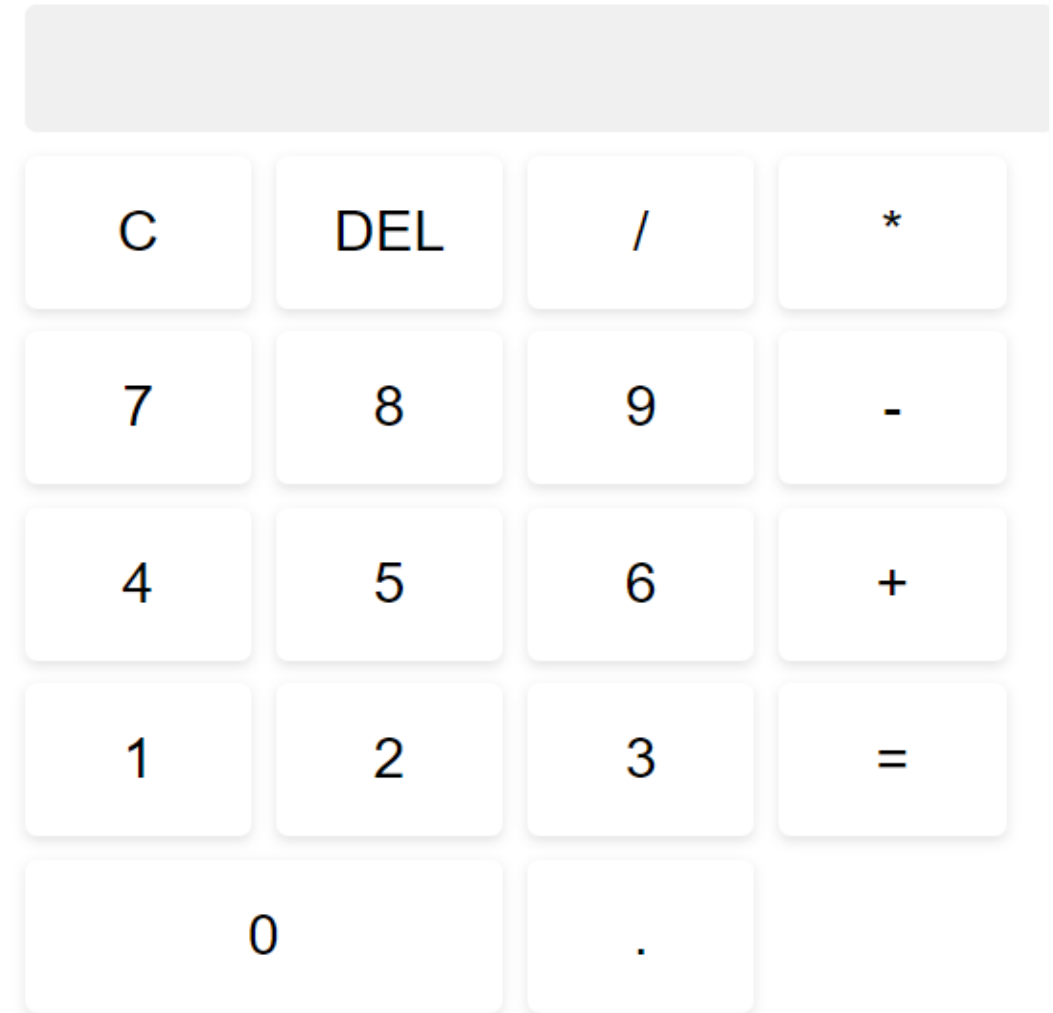
-

About the Project

Purpose :

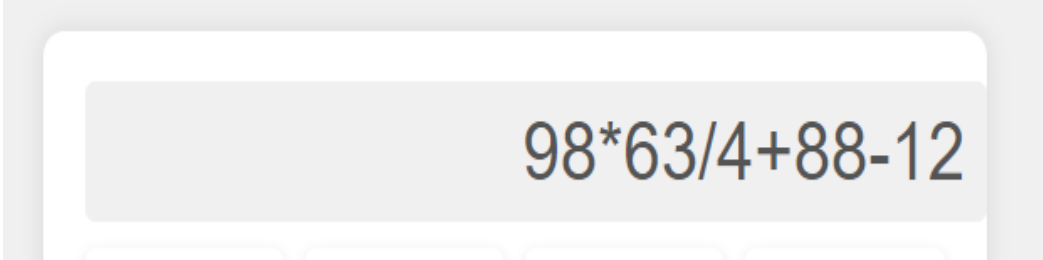
This calculator aims to provide a simple and efficient way to perform basic mathematical calculations.

Target audience : the target audience includes anyone who needs a basic calculator for everyday use, including students, professionals, and individuals.



Key Features

- Arithmetic Operations
- The calculator supports addition, subtraction, multiplication, and division.
- Responsive Design
- The calculator supports addition, subtraction, multiplication, and division.
- User Friendly Interface
- The interface is intuitive and easy to navigate, making the calculator accessible to users of all skill levels.



$98*63/4+88-12$

Basic Arithmetic Operations

Operation	Symbol	Description	Example	Result
Addition	+	Combines two numbers to get their total sum.	$5 + 3$	8
Subtraction	-	Finds the difference between two numbers by removing the second number from the first.	$7 - 4$	3
Multiplication	*	Calculates the product of two numbers by repeated addition.	$6 * 3$	18
Division	/	Divides the first number by the second number to find how many times it contains the second number.	$20 / 4$	5

CODES

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Simple Calculator</title>
  <link rel="stylesheet" href="calculator.css">
</head>
<body>
  <div class="calculator">
    <input type="text" class="display" id="display" disabled>
    <div class="buttons">
      <button onclick="clearDisplay()">C</button>
      <button onclick="deleteLast()">DEL</button>
      <button onclick="appendToDisplay('/')">/</button>
      <button onclick="appendToDisplay('*')">*</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="calculateResult()">=</button>
      <button onclick="appendToDisplay('0')>0</button>
      <button onclick="appendToDisplay('.')">.</button>
    </div>
  </div>
  <script src="calculator.js"></script>
</body>
</html>
```

```
calculator.css > ...
body {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f0f0f0;
  font-family: Arial, sans-serif;
}

.calculator {
  background-color: #fff;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.display {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  font-size: 2em;
  text-align: right;
  border: none;
  background-color: #f0f0f0;
  border-radius: 5px;
}

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

button {
  padding: 20px;
  font-size: 1.5em;
  background-color: #fff;
  border: none;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
  cursor: pointer;
  transition: background-color 0.3s;
}

button:hover {
  background-color: #e0e0e0;
}

.zero {
  grid-column: span 2;
}
```

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

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

function deleteLast() {
  const display = document.getElementById('display');
  display.value = display.value.slice(0, -1);
}

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

COLCLUSION

- In conclusion, the simple calculator project is a solid foundation for understanding the basics of programming and can be expanded with more features as your skills grow.

HTML



CSS



JS

