Simple Calculator Project Report

* **Purpose**

The purpose of this project is to create a simple web-based calculator that performs basic arithmetic operations such as addition, subtraction, multiplication, and division. This project is ideal for beginners like me who want to practice their skills in HTML, CSS, and JavaScript.

* Features
* **Basic Arithmetic Operations:** The calculator can perform addition, subtraction, multiplication, and division.
* **Clear Functionality:** It includes a clear button to reset the calculator.
* **Decimal Support:** Users can input decimal numbers.
* **Responsive Design:** The user interface is responsive and adjusts to different screen sizes.
* Design

**User Interface**

**The user interface of the calculator consists of:**

* **A display screen that shows the current input or result.**
* **Buttons for digits (0-9), decimal point, and arithmetic operators (+, -, \*, /).**
* **A clear button labeled "AC" to reset the calculator.**
* **An equals button (=) to compute the result.**

**Layout**

**The layout is designed using HTML and styled with CSS. The buttons are arranged in a grid-like structure for easy use.**

**Styling**

**The CSS styles include:**

* A clean and modern look with rounded buttons and a shadow effect.
* Different colors for operator buttons, the equals button, and the clear button to distinguish their functions.

**Implementation**

**HTML**

The HTML file (index.html) defines the structure of the calculator. It includes a container for the calculator, a display screen, and buttons for digits and operations.

**CSS**

The CSS file (styles.css) provides the styling for the calculator. It ensures that the calculator is visually appealing and user-friendly.

**JavaScript**

The JavaScript file (script.js) contains the logic for the calculator's functionality. It handles input, performs calculations, and updates the display.

**Functionality**

* 1. **Digit and Decimal Input:** Users can input numbers and decimal points. The input is displayed on the screen.
  2. **Operator Handling:** When an operator button is clicked, the calculator processes the current input and waits for the next input.
  3. **Calculation Execution:** The equals button (=) performs the calculation using the specified operator and operands.
  4. **Clear Functionality:** The clear button (AC) resets the calculator to its initial state.

**Conclusion**

This simple calculator project demonstrates the basics of web development using HTML, CSS, and JavaScript. It provides a functional and visually appealing calculator that supports basic arithmetic operations.