# **Project Report: Basic Calculator**

## Objective:

This project aims to create a simple and visually appealing calculator that performs basic arithmetic operations, including addition, subtraction, multiplication, and division.

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```

## **Implementation Details:**

#### 1. HTML Structure:

- o The index.html file defines the calculator's layout within a <div> container.
- It includes an input field for displaying the calculation and buttons for numbers, operators, and functions like "AC" (clear all) and "Clear" (remove the last digit).
- The form uses onclick attributes in buttons to define behavior for updating the display or performing operations like eval() for calculations.

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```

#### 1. CSS Styling:

- o The style.css file provides styling for the calculator.
- Key design features include:
  - A full-page, centered layout (display: flex; align-items: center; justify-content: center).
  - A dark background for the calculator (#3a4452) with soft shadows for a modern look.

 Buttons are styled with rounded corners, hover effects, and a neon-inspired color palette for operators.

## 2. JavaScript Integration:

- o Inline JavaScript handles all operations through button clicks.
- The eval() function is used for calculating expressions, and custom onclick events manage clearing or updating the input.

#### **Key Features**:

- **User-Friendly Interface**: The calculator is responsive and provides a clean layout with readable fonts and appropriately sized buttons.
- **Basic Functionality**: Supports addition, subtraction, multiplication, division, and handling decimal points.
- Error Handling: The clear button and AC function allow easy correction of input errors.

#### **Explanation**:

When a button is clicked, its value is appended to the display field. Special buttons like "AC" and "Clear" perform actions like clearing or trimming input. The "=" button evaluates the input using eval(). The CSS enhances usability and visual appeal by aligning the calculator centrally with a sleek, shadowed design.