Extended Calculator

Overview

- **Purpose**: A graphical calculator for basic and advanced mathematical operations.
- **Library**: Built with Python's `tkinter` for GUI and `math` for advanced calculations.

Features

1. **Basic Operations**:
    - Addition (+)
    - Subtraction (-)
    - Multiplication (*)
    - Division (/)
2. **Advanced Functions**:
    - **Square Root (sqrt)**: Computes the square root of the entered value.
    - **Square (^2)**: Calculates the square of the entered value.
    - **Cube (^3)**: Calculates the cube of the entered value.
3. **Additional Controls**:
    - **Clear (C)**: Resets the input field.
    - **Delete Last Character (<-)**: Removes the last character in the input field.
    - **Evaluate (=)**: Computes and displays the result of the expression.

Usage

- **Enter Numbers and Operators**: Click buttons to input digits and operations.
- **Perform Calculations**: Use the = button to calculate the result.
- **Clear or Edit**: Use C to clear and <- to delete the last character.

Error Handling

- Invalid expressions or inputs trigger an "Invalid Input" error message.

Running the Application

4. **Save the Code**: Copy the script into a file named `extended_calculator.py`.
5. **Execute**: Open a terminal or command prompt.
    - Navigate to the script's directory.
    - Run with: `python extended_calculator.py`