This Python script implements a **Simple Calculator** using the **Tkinter** library for a graphical user interface (GUI). Below is a detailed description of its components and functionality:

**Overview:**

The calculator provides basic arithmetic operations (addition, subtraction, multiplication, and division) through a simple GUI. It allows users to enter expressions via buttons and evaluates the result using Python's eval function.

**Key Components:**

**1. Main Window:**

* The window object represents the main Tkinter application window, titled "Simple Calculator."
* It houses all widgets like buttons and a text field for interaction.

**2. Expression Field:**

* An Entry widget serves as the text box where the user can see the current expression or result.
* It is configured to span multiple columns for better visibility.

**3. Buttons:**

The calculator has buttons for:

* **Digits**: 0-9
* **Operators**: +, -, \*, /
* **Special Actions**:
  + **Clear (C)**: Clears the expression field.
  + **Equals (=)**: Evaluates the current expression and displays the result.

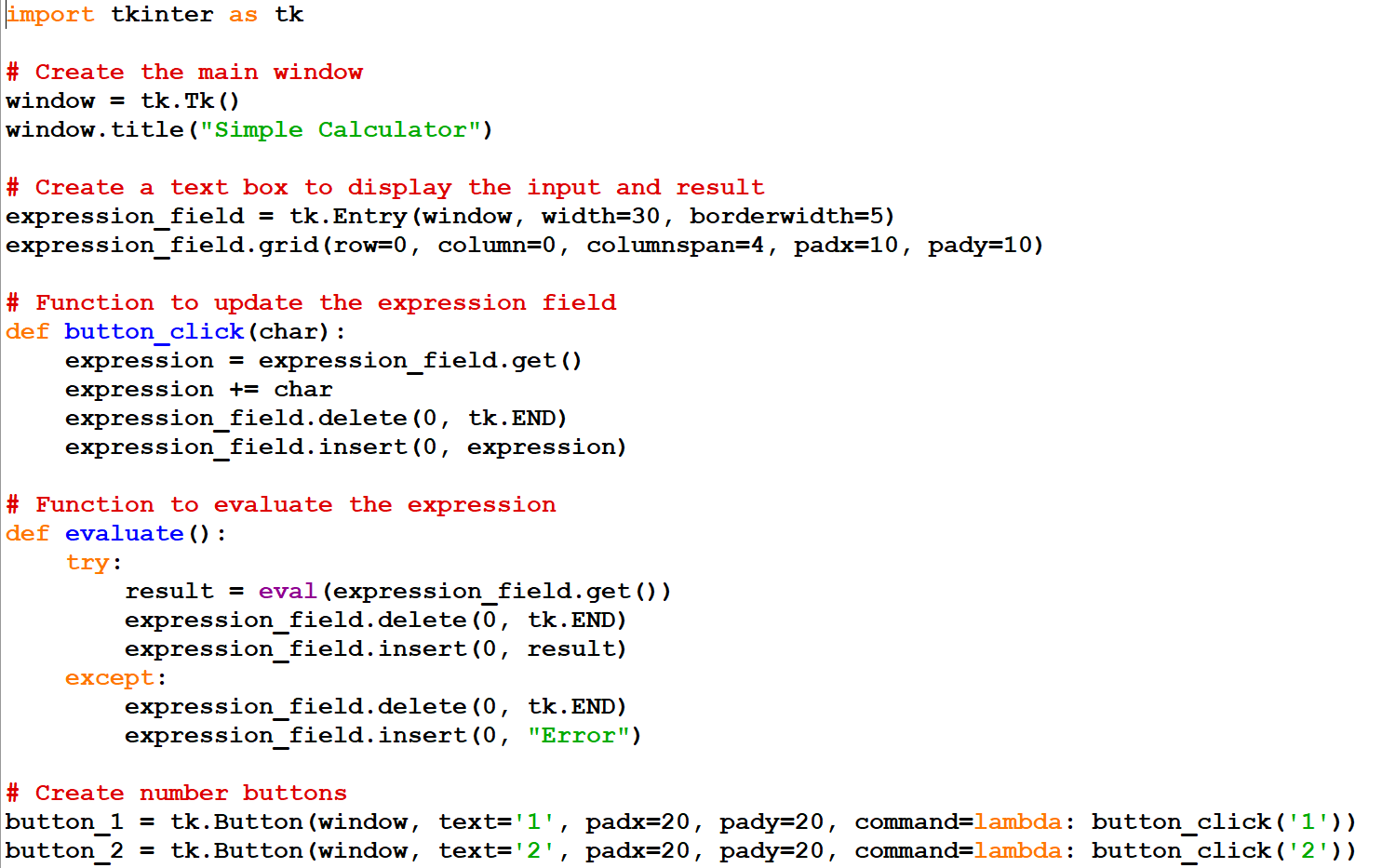
**4. Functions:**

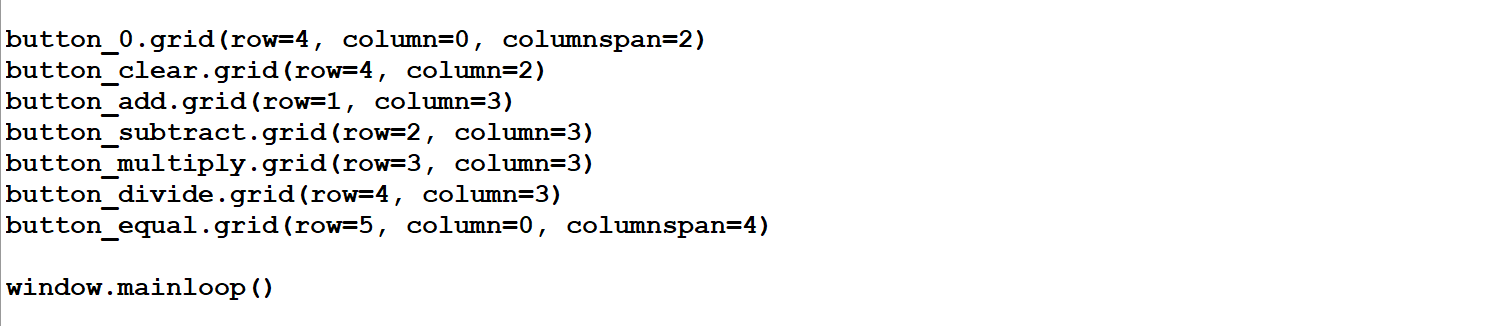
* button\_click(char):
  + Appends the specified character (char) to the current expression.
  + Updates the expression field to reflect the change.
* evaluate():
  + Uses the eval function to compute the result of the current expression.
  + Handles invalid inputs with a try-except block, showing "Error" in the field if evaluation fails.
* **Clear Button (C)**:
  + Deletes all content from the expression field.

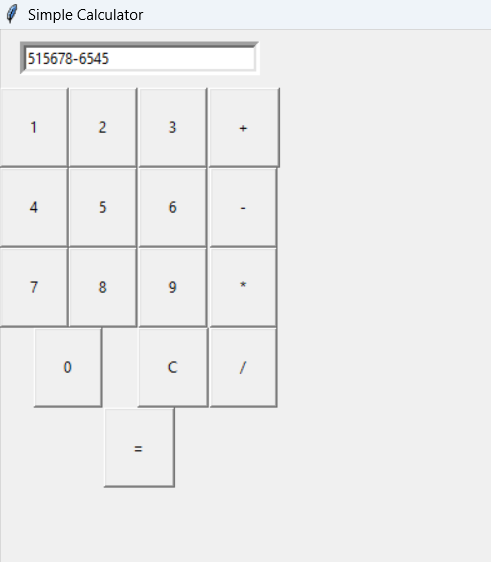
**How It Works:**

1. **Input**:
   * The user clicks on buttons to build a mathematical expression.
   * Each click appends a digit or operator to the expression field.
2. **Evaluation**:
   * Clicking = evaluates the entered expression using eval.
   * The result replaces the current expression in the text field.
3. **Error Handling**:
   * Invalid expressions (e.g., division by zero or incomplete inputs) display "Error" instead of crashing the program.
4. **Clear Functionality**:
   * Clicking C clears the text field, allowing the user to start fresh.

**SCREENSHOTS**

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