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import tkinter as tk
from tkinter import messagebox

class Calculator:
    def __init__(self, master):
        self.master = master
        master.title("Simple Calculator")
        master.geometry("310x450") # Set initial window size
        master.resizable(False, False) # Prevent resizing

        self.expression = ""
        self.input_text = tk.StringVar()

        # Input field (display screen)
        self.input_frame = tk.Frame(master, bd=0, relief=tk.RAISED, bg="lightgray")
        self.input_frame.pack(side=tk.TOP, fill=tk.BOTH, expand=True, padx=5, pady=5)

        self.input_field = tk.Entry(self.input_frame, font=('arial', 24, 'bold'),
                                    textvariable=self.input_text, width=20, bg="#eee", bd=5,
                                    justify=tk.RIGHT, relief=tk.FLAT)
        self.input_field.grid(row=0, column=0, ipady=10, sticky="nsew")

        # Configure the grid to make the input field expand
        self.input_frame.grid_rowconfigure(0, weight=1)
        self.input_frame.grid_columnconfigure(0, weight=1)

        # Buttons frame
        self.btns_frame = tk.Frame(master, bg="#282C35")
        self.btns_frame.pack(fill=tk.BOTH, expand=True)

        # Button layout (text, row, col)
        buttons = [
            ('C', 1, 0), ('CE', 1, 1), ('%', 1, 2), ('/', 1, 3),
            ('7', 2, 0), ('8', 2, 1), ('9', 2, 2), ('*', 2, 3),
            ('4', 3, 0), ('5', 3, 1), ('6', 3, 2), ('-', 3, 3),
            ('1', 4, 0), ('2', 4, 1), ('3', 4, 2), ('+', 4, 3),
            ('0', 5, 0), ('.', 5, 1), ('=', 5, 2)
        ]

        # Create and place buttons
        for text, r, c in buttons:
            if text == 'C':
                btn = tk.Button(self.btns_frame, text=text, fg="white", bg="#ff6b6b",
                                font=('arial', 18, 'bold'), bd=0, relief=tk.FLAT,
                                command=self.clear_all)
                btn.grid(row=r, column=c, columnspan=1, sticky="nsew", padx=1, pady=1)
            elif text == 'CE':
                btn = tk.Button(self.btns_frame, text=text, fg="white", bg="#ff6b6b",
                                font=('arial', 18, 'bold'), bd=0, relief=tk.FLAT,
                                command=self.clear_entry)
                btn.grid(row=r, column=c, columnspan=1, sticky="nsew", padx=1, pady=1)
            elif text == '=':
                btn = tk.Button(self.btns_frame, text=text, fg="white", bg="#61dafb",
                                font=('arial', 18, 'bold'), bd=0, relief=tk.FLAT,
                                command=self.calculate)
                btn.grid(row=r, column=c, columnspan=2, sticky="nsew", padx=1, pady=1) # Span
2 columns for '='
            else:
                btn = tk.Button(self.btns_frame, text=text, fg="white", bg="#44475A",
                                font=('arial', 18, 'bold'), bd=0, relief=tk.FLAT,
                                command=lambda t=text: self.button_click(t))
                btn.grid(row=r, column=c, sticky="nsew", padx=1, pady=1)

        # Configure rows and columns of buttons_frame to expand proportionally
        for i in range(1, 6): # Rows 1 to 5 for buttons
            self.btns_frame.grid_rowconfigure(i, weight=1)
        for i in range(4): # Columns 0 to 3
            self.btns_frame.grid_columnconfigure(i, weight=1)

    def button_click(self, item):
        self.expression += str(item)
        self.input_text.set(self.expression)

    def clear_all(self):
        self.expression = ""
        self.input_text.set("")

    def clear_entry(self):
        # Remove the last character
        self.expression = self.expression[:-1]
        self.input_text.set(self.expression)

    def calculate(self):
        try:
            result = str(eval(self.expression))
            self.input_text.set(result)
            self.expression = result # Keep result for further calculations
        except Exception as e:
            messagebox.showerror("Error", "Invalid Input or Calculation Error!")
            self.expression = ""
            self.input_text.set("")

if __name__ == "__main__":
    root = tk.Tk()
    my_calculator = Calculator(root)
    root.mainloop()
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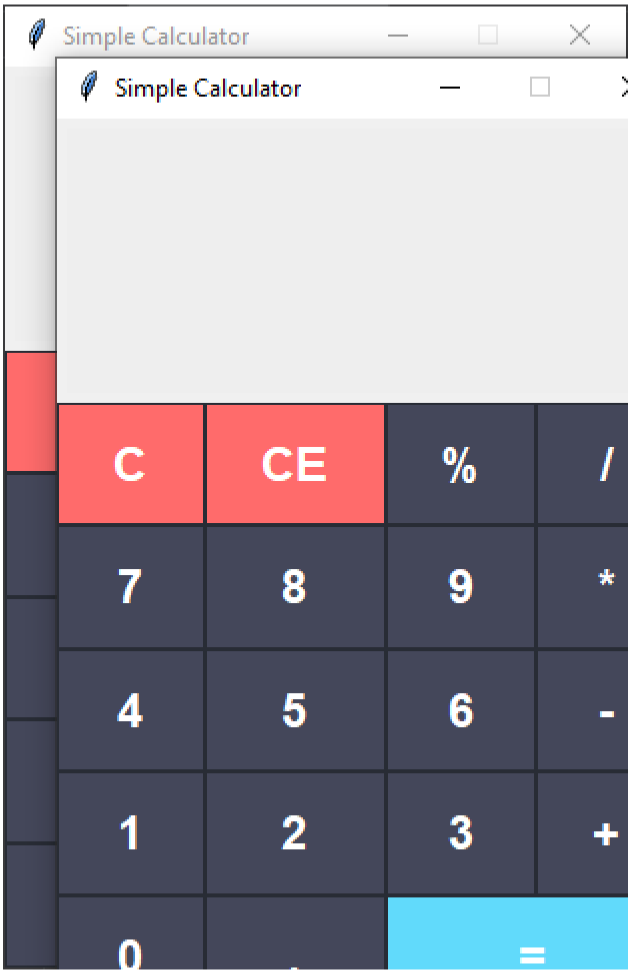
Simple Calculator
Simple Calculator
C
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%
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