import tkinter as tk

# Append button value to the display

def button\_click(symbol):

entry\_var.set(entry\_var.get() + str(symbol))

# Clear display

def clear\_display():

entry\_var.set("")

# Calculate the expression

def calculate():

try:

result = eval(entry\_var.get()) # Quick evaluation

entry\_var.set(str(result))

except ZeroDivisionError:

entry\_var.set("Error: Div/0")

except Exception:

entry\_var.set("Error")

# Create main window

root = tk.Tk()

root.title("Simple Calculator")

root.geometry("300x400") # Can be resized now

root.minsize(250, 350) # Minimum size to avoid shrinking too much

entry\_var = tk.StringVar()

# Display area

entry = tk.Entry(root, textvariable=entry\_var, font=("Arial", 20), bd=8, relief="ridge", justify="right")

entry.grid(row=0, column=0, columnspan=4, ipadx=5, ipady=10, sticky="nsew")

# Button configuration

buttons = [

('7', 1, 0), ('8', 1, 1), ('9', 1, 2), ('/', 1, 3),

('4', 2, 0), ('5', 2, 1), ('6', 2, 2), ('\*', 2, 3),

('1', 3, 0), ('2', 3, 1), ('3', 3, 2), ('-', 3, 3),

('0', 4, 0), ('.', 4, 1), ('+', 4, 2), ('=', 4, 3)

]

# Create all buttons in a loop

for (text, row, col) in buttons:

cmd = calculate if text == "=" else lambda t=text: button\_click(t)

tk.Button(root, text=text, width=5, height=2, font=("Arial", 15),

command=cmd).grid(row=row, column=col, padx=2, pady=2, sticky="nsew")

# Clear button

tk.Button(root, text="C", font=("Arial", 15), command=clear\_display).grid(row=5, column=0, columnspan=4, padx=2, pady=5, sticky="nsew")

# Make columns & rows expand with window

for i in range(4):

root.grid\_columnconfigure(i, weight=1)

for i in range(6):

root.grid\_rowconfigure(i, weight=1)

# Run the app

root.mainloop()