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from tkinter import *
import math

mainBox=Tk()
mainBox.title('Calculator')
mainBox.geometry('500x500')
entry=Entry(mainBox,width=100,borderwidth=5,font=('Arial',30))
entry.place(x=0,y=0)

def btnclick(n):
    current=entry.get()
    entry.delete(0,END)
    entry.insert(0,str(current)+str(n))

btn=Button(mainBox,text='9',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(9))
btn.place(x=30,y=110)

btn=Button(mainBox,text='8',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(8))
btn.place(x=190,y=110)

btn=Button(mainBox,text='7',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(7))
btn.place(x=350,y=110)

btn=Button(mainBox,text='6',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(6))
btn.place(x=30,y=170)

btn=Button(mainBox,text='5',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(5))
btn.place(x=190,y=170)

btn=Button(mainBox,text='4',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(4))
btn.place(x=350,y=170)

btn=Button(mainBox,text='3',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(3))
btn.place(x=30,y=230)

btn=Button(mainBox,text='2',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(2))
btn.place(x=190,y=230)

btn=Button(mainBox,text='1',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(1))
btn.place(x=350,y=230)

btn=Button(mainBox,text='0',width=15,borderwidth=5,font=('Arial',10),command=lambda:btnclick(0))
btn.place(x=30,y=290)

def add():
    global f,math
    math='addition'
    fnum=entry.get()
    f=int(fnum)
    entry.delete(0,END)

btn=Button(mainBox,text='+',width=15,borderwidth=5,font=('Arial',10),command=add)
btn.place(x=190,y=290)

def sub():
    global f,math
    math='subtraction'
    fnum=entry.get()
    f=int(fnum)
    entry.delete(0,END)

btn=Button(mainBox,text='-',width=15,borderwidth=5,font=('Arial',10),command=sub)
btn.place(x=350,y=290)

def mul():
    global f,math
    math='multiplication'
    fnum=entry.get()
    f=int(fnum)
    entry.delete(0,END)

btn=Button(mainBox,text='*',width=15,borderwidth=5,font=('Arial',10),command=mul)
btn.place(x=30,y=350)

def div():
    global f,math
    math='division'
    fnum=entry.get()
    f=int(fnum)
    entry.delete(0,END)

btn=Button(mainBox,text='/',width=15,borderwidth=5,font=('Arial',10),command=div)
btn.place(x=190,y=350)

def mod():
    global f,math
    math='modulus'
    fnum=entry.get()
    f=float(fnum)
    entry.delete(0,END)

btn=Button(mainBox,text='%',width=15,borderwidth=5,font=('Arial',10),command=mod)
btn.place(x=350,y=350)

def total():
    f1num=entry.get()
    entry.delete(0,END)
    if math=='addition':
        entry.insert(0,f+int(f1num))
    elif math=='subtraction':
        entry.insert(0,f-int(f1num))
    elif math=='multiplication':
        entry.insert(0,f*int(f1num))
    elif math=='division':
        entry.insert(0,f/int(f1num))
    elif math=='modulus':
        entry.insert(0,f%int(f1num))

btn=Button(mainBox,text='=',width=15,borderwidth=5,font=('Arial',10),command=total)
btn.place(x=110,y=420)

def clear():
    entry.delete(0,END)

btn=Button(mainBox,text='Clear',width=15,borderwidth=5,font=('Arial',10),command=clear)
btn.place(x=270,y=420)

mainBox.mainloop()
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