from tkinter import \*

from math import \*

ventana=Tk()

ventana.title("CALCULADORA")

ventana.geometry("392x600")

ventana.configure(background="SkyBlue4")#

color\_boton=("gray77")

def btnClik(num):

    global operador

    operador=operador+str(num)

    input\_text.set(operador) #VISUALIZAR LA OPERACION EN LA PANTALLA

def clear():

    global operador

    operador=("")

    input\_text.set("0")

def operacion():

    global operador

    try:

        opera=str(eval(operador))#REALIZAR LA OPERACIÓN PREVIAMENTE VISUALIZADA EN PANTALLA

    except:

        clear()

        opera=("ERROR")

    input\_text.set(opera)#MUESTRA EL RESULTADO

ancho\_boton=11

alto\_boton=3

input\_text=StringVar()

operador=""

clear()

Button(ventana,text="0",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(0)).place(x=17,y=180)

Button(ventana,text="1",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(1)).place(x=107,y=180)

Button(ventana,text="2",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(2)).place(x=197,y=180)

Button(ventana,text="3",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(3)).place(x=287,y=180)

Button(ventana,text="4",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(4)).place(x=17,y=240)

Button(ventana,text="5",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(5)).place(x=107,y=240)

Button(ventana,text="6",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(6)).place(x=197,y=240)

Button(ventana,text="7",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(7)).place(x=287,y=240)

Button(ventana,text="8",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(8)).place(x=17,y=300)

Button(ventana,text="9",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(9)).place(x=107,y=300)

Button(ventana,text="π",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("pi")).place(x=197,y=300)

Button(ventana,text=",",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(".")).place(x=287,y=300)

Button(ventana,text="+",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("+")).place(x=17,y=360)

Button(ventana,text="-",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("-")).place(x=107,y=360)

Button(ventana,text="\*",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("\*")).place(x=197,y=360)

Button(ventana,text="/",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("/")).place(x=287,y=360)

Button(ventana,text="√",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("sqrt(")).place(x=17,y=420)

Button(ventana,text="(",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("(")).place(x=17,y=480)

Button(ventana,text=")",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik(")")).place(x=107,y=480)

Button(ventana,text="%",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("%")).place(x=197,y=480)

Button(ventana,text="ln",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("log(")).place(x=287,y=480)

Button(ventana,text="C",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=clear).place(x=107,y=420)

Button(ventana,text="EXP",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=lambda:btnClik("\*\*")).place(x=197,y=420)

Button(ventana,text="=",bg=color\_boton,width=ancho\_boton,height=alto\_boton,command=operacion).place(x=287,y=420)

Salida=Entry(ventana,font=('arial',20,'bold'),width=22,textvariable=input\_text,bd=20,insertwidth=4,bg="powder blue",justify="right").place(x=10,y=60)

ventana.mainloop()