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import tkinter
from tkinter import *

root = Tk()
root.title("Simple Calculator")
root.geometry("570x600+100+200")
root.resizable(False, False)
root.configure(bg="#17161b")

equation = ""

def show(value):
    global equation
    equation+=value
    label_result.config(text=equation)

def clear():
    global equation
    equation=""
    label_result.config(text=equation)

def calculate():
    global equation
    result = ""
    if equation != "":
        try:
            result=eval(equation)
        except:
            result="!!ERROR!!"
            equation=""
    label_result.config(text=result)

label_result = Label(root,width=25,height=2, text="",font=("arial",30))
label_result.pack()

Button(root,text="C", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#3697f5",command=lambda:
clear()).place(x=10,y=100)
Button(root,text="/", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("/")).place(x=150,y=100)
Button(root,text="%", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("%")).place(x=290,y=100)
Button(root,text="*", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("*")).place(x=430,y=100)

Button(root,text="7", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("7")).place(x=10,y=200)

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Button(root,text="8", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("8")).place(x=150,y=200)
Button(root,text="9", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("9")).place(x=290,y=200)
Button(root,text="-", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("-")).place(x=430,y=200)
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Button(root,text="4", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("4")).place(x=10,y=300)
Button(root,text="5", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("5")).place(x=150,y=300)
Button(root,text="6", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("6")).place(x=290,y=300)
Button(root,text="+", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("+")).place(x=430,y=300)
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Button(root,text="1", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("1")).place(x=10,y=400)
Button(root,text="2", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("2")).place(x=150,y=400)
Button(root,text="3", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("3")).place(x=290,y=400)
Button(root,text="0", width=11,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show("0")).place(x=10,y=500)
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Button(root,text=".", width=5,height=1,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#2a2d36",command=lambda:
show(".")).place(x=290,y=500)
Button(root,text="=", width=5,height=3,
font=("arial",30,"bold"),bd=1,fg="#fff",bg="#fe9037",command=lambda:
calculate()).place(x=430,y=400)
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root.mainloop()
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