**from tkinter import \***

**def click(event): #print(event) #print(event.widget) #print(event.widget.cget('text'))**

**global scvalue**

**value=0**

**text=event.widget.cget('text')**

**if text == '=':**

**if scvalue.get().isdigit():**

**value=int(scvalue().get())**

**else:**

**try:**

**value=eval(screen.get())**

**scvalue.set(value)**

**screen.update()**

**except Exception as e:**

**print(e)**

**scvalue.set('ERROR!!')**

**screen.update()**

**elif text == 'C':**

**scvalue.set("")**

**value=0**

**screen.update()**

**else:**

**#print('old scvalue: ',scvalue.get())**

**#print('text: ',text)**

**#print('new scvalue: ',scvalue.get()+text)**

**#print('\n')**

**scvalue.set(scvalue.get()+text)**

**screen.update()**

**#main**

**root=Tk()**

**root.geometry("700x700")**

**root.title("Calculator")**

**#root.wm\_iconbitmap("C:\\Users\\com\\Desktop\\download.png")**

**scvalue=StringVar()**

**#scvalue=''**

**scvalue.set("")**

**screen=Entry(root,textvariable=scvalue,font=('times new roman', 20 ,'bold'))**

**screen.pack(fill=X,padx=10,pady=10,ipady=5)**

**framex=Frame(root,bg="orange",padx=6,pady=20,relief=GROOVE,borderwidth=8)**

**framex.pack(fill=X)**

**frame1=Frame(framex,bg='red',padx=10,pady=10,relief=RIDGE,borderwidth=5)**

**frame1.pack(side=LEFT,expand=1)**

**frame2=Frame(framex,bg='yellow',padx=10,pady=10,relief=SUNKEN,borderwidth=5)**

**frame2.pack(side=LEFT,expand=1)**

**f=Frame(frame1,bg="pink")**

**b=Button(f,text="9",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="8",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="7",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**f.pack()**

**f=Frame(frame1,bg="white")**

**b=Button(f,text="6",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="5",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="4",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**f.pack()**

**f=Frame(frame1,bg="black")**

**b=Button(f,text="3",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="2",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="1",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**f.pack()**

**f=Frame(frame1,bg="grey")**

**b=Button(f,text="0",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="C",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text=".",padx=29,pady=25,font=('times new roman', 10 ,'bold'))**

**b.pack(side=LEFT,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**f.pack()**

**f=Frame(frame2,bg="grey")**

**b=Button(f,text="+",padx=28,pady=75,font=('times new roman', 10 ,'bold'))**

**b.grid(row=0,column=0,padx=5,pady=5,rowspan=2)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="-",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.grid(row=2,column=0,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="\*",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.grid(row=3,column=0,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="/",padx=28,pady=25,font=('times new roman', 10 ,'bold'))**

**b.grid(row=0,column=1,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="%",padx=25,pady=25,font=('times new roman', 10 ,'bold'))**

**b.grid(row=1,column=1,padx=5,pady=5)**

**b.bind('<Button-1>',click)**

**b=Button(f,text="=",padx=28,pady=75,font=('times new roman', 10 ,'bold'))**

**b.grid(row=2,column=1,padx=5,pady=5,rowspan=2)**

**b.bind('<Button-1>',click)**

**f.pack(side=LEFT)**

**#print('before loop')**

**root.mainloop()**

**#print('after loop')**