from tkinter import\*

import random

import time

root = Tk()

root.title("Cafe Management System")

Tops = Frame(root,bg="white",width = 1600,height=50,relief=SUNKEN)

Tops.pack(side=TOP)

f1 = Frame(root,width = 900,height=700,relief=SUNKEN)

f1.pack(side=LEFT)

f2 = Frame(root ,width = 400,height=700,relief=SUNKEN)

f2.pack(side=RIGHT)

#Time and date

localtime=time.asctime(time.localtime(time.time()))

#Title

lblinfo = Label(Tops, font=( 'times new roman' ,30, 'bold' ),text="Cafe Reputation Management ",fg="red",bd=10,anchor='w',bg='pink'))

lblinfo.grid(row=0,column=0)

lblinfo = Label(Tops, font=( 'times new roman' ,20, ),text=localtime,fg="red",anchor=W)

lblinfo.grid(row=1,column=0)

#Calculator

text\_Input=StringVar()

operator =""

txtdisplay = Entry(f2,font=('times new roman' ,20,'bold'), textvariable=text\_Input , bd=5 ,insertwidth=7 ,bg="pink",justify='right')

txtdisplay.grid(columnspan=4)

def btnclick(numbers):

global operator

operator=operator + str(numbers)

text\_Input.set(operator)

def clrdisplay():

global operator

operator=""

text\_Input.set("")

def eqals():

global operator

sumup=str(eval(operator))

text\_Input.set(sumup)

operator = ""

def Ref():

x=random.randint(12980, 50876)

randomRef = str(x)

rand.set(randomRef)

cof =float(esp.get())

colice= float(ice.get())

cob= float(cup.get())

cofi= float(red.get())

cochee= float(black.get())

codr= float(cake.get())

costofesp = cof\*25

costofice = colice\*40

costofcup = cob\*35

costofred = cofi\*50

costofblack = cochee\*50

costofcake = codr\*35

costofmeal = "Rs.",str('%.2f'% (costofesp + costofice + costofcup + costofred + costofblack + costofcake))

PayTax=((costofesp + costofice + costofcup + costofred + costofblack + costofcake)\*0.33)

Totalcost=(costofesp + costofice + costofcup + costofred + costofblack + costofcake)

Ser\_Charge=((costofesp + costofice + costofcup + costofred + costofblack + costofcake)/99)

Service="Rs.",str('%.2f'% Ser\_Charge)

OverAllCost="Rs.",str( PayTax + Totalcost + Ser\_Charge)

PaidTax="Rs.",str('%.2f'% PayTax)

Service\_Charge.set(Service)

cost.set(costofmeal)

Tax.set(PaidTax)

#Subtotal.set(costofmeal)

Total.set(OverAllCost)

def qexit():

root.destroy()

def reset():

rand.set("")

esp.set("")

ice.set("")

cup.set("")

red.set("")

Subtotal.set("")

Total.set("")

Service\_Charge.set("")

cake.set("")

Tax.set("")

cost.set("")

black.set("")

#Calculator

btn7=Button(f2,padx=16,pady=16,bd=7, fg="maroon", font=('times new roman', 20 ,'bold'),text="7",bg="pink", command=lambda: btnclick(7) )

btn7.grid(row=2,column=0)

btn8=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="8",bg="pink", command=lambda: btnclick(8) )

btn8.grid(row=2,column=1)

btn9=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="9",bg="pink", command=lambda: btnclick(9) )

btn9.grid(row=2,column=2)

Addition=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="+",bg="pink", command=lambda: btnclick("+") )

Addition.grid(row=2,column=3)

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btn4=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="4",bg="pink", command=lambda: btnclick(4) )

btn4.grid(row=3,column=0)

btn5=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="5",bg="pink", command=lambda: btnclick(5) )

btn5.grid(row=3,column=1)

btn6=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="6",bg="pink", command=lambda: btnclick(6) )

btn6.grid(row=3,column=2)

Substraction=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="-",bg="pink", command=lambda: btnclick("-") )

Substraction.grid(row=3,column=3)

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btn1=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="1",bg="pink", command=lambda: btnclick(1) )

btn1.grid(row=4,column=0)

btn2=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="2",bg="pink", command=lambda: btnclick(2) )

btn2.grid(row=4,column=1)

btn3=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="3",bg="pink", command=lambda: btnclick(3) )

btn3.grid(row=4,column=2)

multiply=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="\*",bg="pink", command=lambda: btnclick("\*") )

multiply.grid(row=4,column=3)

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btn0=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="0",bg="pink", command=lambda: btnclick(0) )

btn0.grid(row=5,column=0)

btnc=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text="c",bg="pink", command=clrdisplay)

btnc.grid(row=5,column=1)

btnequal=Button(f2,padx=16,pady=16,bd=4,width = 16, fg="maroon", font=('times new roman', 20 ,'bold'),text="=",bg="pink",command=eqals)

btnequal.grid(columnspan=4)

Decimal=Button(f2,padx=16,pady=16,bd=4, fg="maroon", font=('times new roman', 20 ,'bold'),text=".",bg="pink", command=lambda: btnclick(".") )

Decimal.grid(row=5,column=2)

Division=Button(f2,padx=16,pady=16,bd=4,fg="maroon", font=('times new roman', 20 ,'bold'),text="/",bg="pink", command=lambda: btnclick("/") )

Division.grid(row=5,column=3)

#------------------------------------------------------------------------------------------------

rand = StringVar()

esp = StringVar()

ice = StringVar()

cup = StringVar()

red = StringVar()

Subtotal = StringVar()

Total = StringVar()

Service\_Charge = StringVar()

cake = StringVar()

Tax = StringVar()

cost = StringVar()

black = StringVar()

lblreference = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Order No.",fg="red",bd=10,anchor='w',bg='pink')

lblreference.grid(row=0,column=0)

txtreference = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=rand , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtreference.grid(row=0,column=1)

lblesp = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Espresso ",fg="red",bd=10,anchor='w')

lblesp.grid(row=1,column=0)

txtesp = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=esp , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtesp.grid(row=1,column=1)

lblice = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Iced Latte ",fg="red",bd=10,anchor='w')

lblice.grid(row=2,column=0)

txtice = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=ice , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtice.grid(row=2,column=1)

lblcup = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Cappuccino ",fg="red",bd=10,anchor='w')

lblcup.grid(row=3,column=0)

txtcup = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=cup , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtcup.grid(row=3,column=1)

lblred = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Red Velvet Cake ",fg="red",bd=10,anchor='w')

lblred.grid(row=4,column=0)

txtred = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=red , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtred.grid(row=4,column=1)

lblblack = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Black Forest ",fg="red",bd=10,anchor='w')

lblblack.grid(row=5,column=0)

txtblack = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=black , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtblack.grid(row=5,column=1)

lblcake = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Coffee cake ",fg="red",bd=10,anchor='w')

lblcake.grid(row=6,column=0)

txtcake = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=cake , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtcake.grid(row=6,column=1)

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lblcost = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Total",fg="red",bd=10,anchor='w')

lblcost.grid(row=1,column=2)

txtcost = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=cost , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtcost.grid(row=1,column=3)

lblService\_Charge = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Service Charge",fg="red",bd=10,anchor='w')

lblService\_Charge.grid(row=3,column=2)

txtService\_Charge = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=Service\_Charge , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtService\_Charge.grid(row=3,column=3)

lblTax = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Tax",fg="red",bd=10,anchor='w')

lblTax.grid(row=5,column=2)

txtTax = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=Tax , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtTax.grid(row=5,column=3)

lblTotal = Label(f1, font=( 'times new roman' ,16, 'bold' ),text="Receipt",fg="red",bd=10,anchor='w')

lblTotal.grid(row=7,column=2)

txtTotal = Entry(f1,font=('times new roman' ,16,'bold'), textvariable=Total , bd=6,insertwidth=4,bg="pink" ,justify='right')

txtTotal.grid(row=7,column=3)

#buttons

btnTotal=Button(f1,padx=16,pady=8, bd=10 ,fg="black",font=('times new roman' ,16,'bold'),width=10, text="TOTAL", bg="pink",command=Ref)

btnTotal.grid(row=6, column=8)

btnreset=Button(f1,padx=16,pady=8, bd=10 ,fg="black",font=('times new roman' ,16,'bold'),width=10, text="RESET", bg="pink",command=reset)

btnreset.grid(row=4, column=8)

btnexit=Button(f1,padx=16,pady=8, bd=10 ,fg="black",font=('times new roman' ,16,'bold'),width=10, text="EXIT", bg="pink",command=qexit)

btnexit.grid(row=2, column=8)

#Gui for the price menu

def price():

roo = Tk()

roo.title("Price List")

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="ITEM", fg="black", bd=5)

lblinfo.grid(row=0, column=0)

lblinfo = Label(roo, font=('times new roman', 15,'bold'), text="\_\_\_\_\_\_\_\_\_\_\_\_\_", fg="black", anchor=W)

lblinfo.grid(row=0, column=2)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="PRICE", fg="black", anchor=W)

lblinfo.grid(row=0, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Espresso", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=1, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="25", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=1, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Iced Latte", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=2, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="40", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=2, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Cappucciono", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=3, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="35", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=3, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Red Velvet cake", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=4, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="50", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=4, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Black Forest", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=5, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="30", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=5, column=3)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="Coffee cake", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=6, column=0)

lblinfo = Label(roo, font=('times new roman', 15, 'bold'), text="35", fg="silver",bg='black', anchor=W)

lblinfo.grid(row=6, column=3)

roo.mainloop()

btnprice=Button(f1,padx=16,pady=8, bd=10 ,fg="black",font=('ariel' ,16,'bold'),width=10, text="PRICE", bg="pink",command=price)

btnprice.grid(row=8, column=8)

root.mainloop()