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from tkinter import *
import random
import time;

root = Tk()
root.geometry("1600x800")
root.title("Food Court Management Systems")

text_Input = StringVar()
operator = ""

Tops = Frame(root, width = 1600, height = 50, bg = "powder blue", relief = SUNKEN)
Tops.pack(side=TOP)

f1 = Frame(root, width = 800, height = 700, relief = SUNKEN)
f1.pack(side=LEFT)

f2 = Frame(root, width = 300, height = 700, relief = SUNKEN)
f2.pack(side=RIGHT)

#=====Time=====
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localtime=time.asctime(time.localtime(time.time()))

#=====Info=====
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lblInfo = Label(Tops, font=('arial',50, 'bold'), text="Food Court Management
Systems", fg="Steel Blue", bd=10, anchor='w')
lblInfo.grid(row=0,column=0)
lblInfo = Label(Tops, font=('arial',20, 'bold'), text=localtime, fg="Steel Blue",
bd=10, anchor='w')
lblInfo.grid(row=1,column=0)
#=====Calculation=====
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def btnClick(numbers):
    global operator
    operator = operator + str(numbers)
    text_Input.set(operator)

def btnClearDisplay():
    global operator
    operator=""
    text_Input.set("")

def btnEqualsInput():
    global operator
    sumup = str(eval(operator))
    text_Input.set(sumup)
    operator=""

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def Ref():
    x = random.randint(10908, 500876)
    randomRef = str(x)
    rand.set(randomRef)

    CoF = float(Fries.get())
    CoD = float(Drinks.get())
    CoSharwarma = float(Sharwarma.get())
    CoBurger = float(Burger.get())
    CoChicken = float(Chicken.get())
    CoPizza = float(Pizza.get())

    CostofFries = CoF * 1000
    CostofDrinks = CoD * 250
    CostofSharwarma = CoSharwarma * 2500
    CostofBurger = CoBurger * 3500
    CostofChicken = CoChicken * 3700
    CostofPizza = CoPizza * 3200

    CostofMeal = "$", str('%.2f' % (CostofFries + CostofDrinks + CostofSharwarma +
    CostofBurger + CostofChicken + CostofPizza))

    PayTax = ((CostofFries + CostofDrinks + CostofSharwarma + CostofBurger +
    CostofChicken + CostofPizza) * 0.2)

    TotalCost = (CostofFries + CostofDrinks + CostofSharwarma + CostofBurger +
    CostofChicken + CostofPizza)

    Ser_Charge = ((CostofFries + CostofDrinks + CostofSharwarma + CostofBurger +
    CostofChicken + CostofPizza)/99)

    Service = "$", str('%.2f' % Ser_Charge)
    OverallCost = "#", str('%.2f' % (PayTax + TotalCost + Ser_Charge))
    PaidTax = "$", 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("")

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Fries.set("")
Burger.set("")
Filet.set("")
SubTotal.set("")
Total.set("")
Service_Charge.set("")
Drinks.set("")
Tax.set("")
Cost.set("")
Chicken.set("")
Pizza.set("")

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#=====Calcuato
r Format=====

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txtDisplay = Entry(f2,font=('arial', 20, 'bold'), textvariable=text_Input, bd=30,
insertwidth=4, bg="powder blue", justify='right')
txtDisplay.grid(columnspan=4)

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btn7=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="7", bg="powder blue", command=lambda: btnClick(7)).grid(row=2,column=0)

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btn8=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="8", bg="powder blue", command=lambda: btnClick(8)).grid(row=2,column=1)

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btn9=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="9", bg="powder blue", command=lambda: btnClick(9)).grid(row=2,column=2)

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Addition=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="+", bg="powder blue", command=lambda: btnClick("+")).grid(row=2,column=3)

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#=====
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btn4=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="4", bg="powder blue", command=lambda: btnClick(4)).grid(row=3,column=0)

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btn5=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="5", bg="powder blue", command=lambda: btnClick(5)).grid(row=3,column=1)

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btn6=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="6", bg="powder blue", command=lambda: btnClick(6)).grid(row=3,column=2)

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Subtracttion=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="-", bg="powder blue", command=lambda: btnClick("-")).grid(row=3,column=3)

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#=====
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btn1=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="1", bg="powder blue", command=lambda: btnClick(1)).grid(row=4,column=0)

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btn2=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="2", bg="powder blue", command=lambda: btnClick(2)).grid(row=4,column=1)

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btn3=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="3", bg="powder blue", command=lambda: btnClick(3)).grid(row=4,column=2)

Multiply=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="*", bg="powder blue", command=lambda: btnClick("*")).grid(row=4,column=3)
#=====
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btn0=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="0", bg="powder blue", command=lambda: btnClick(0)).grid(row=5,column=0)

btnClear=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="C", bg="powder blue", command=btnClearDisplay).grid(row=5,column=1)

btnEquals=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="=", bg="powder blue", command=btnEqualsInput).grid(row=5,column=2)

Division=Button(f2,padx=16,pady=16,bd=8, fg="black", font=('arial',20,'bold'),
text="/", bg="powder blue", command=lambda: btnClick("/")).grid(row=5,column=3)

#=====Restaurant Info
1=====
rand = StringVar()
Fries = StringVar()
Burger = StringVar()
Sharwarma = StringVar()
SubTotal = StringVar()
Total = StringVar()
Service_Charge = StringVar()
Drinks = StringVar()
Tax = StringVar()
Cost = StringVar()
Chicken = StringVar()
Pizza = StringVar()

lblReference = Label(f1,font=('arial',16,'bold'), text="Reference", bd=16,
anchor='w')
lblReference.grid(row=0,column=0)
txtReference=Entry(f1,font=('arial',16,'bold'), textvariable=rand, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtReference.grid(row=0,column=1)

lblFries = Label(f1,font=('arial',16,'bold'), text="Large Fries", bd=16,
anchor='w')
lblFries.grid(row=1,column=0)
txtFries=Entry(f1,font=('arial',16,'bold'), textvariable=Fries, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtFries.grid(row=1,column=1)

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lblBurger = Label(f1,font=('arial',16,'bold'), text="Burger Meal", bd=16,
anchor='w')
lblBurger.grid(row=2,column=0)
txtBurger=Entry(f1,font=('arial',16,'bold'), textvariable=Burger, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtBurger.grid(row=2,column=1)
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lblSharwarma = Label(f1,font=('arial',16,'bold'), text="Sharwarma", bd=16,
anchor='w')
lblSharwarma.grid(row=3,column=0)
txtSharwarma=Entry(f1,font=('arial',16,'bold'), textvariable=Sharwarma, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtSharwarma.grid(row=3,column=1)
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```
lblChicken = Label(f1,font=('arial',16,'bold'), text="Chicken", bd=16, anchor='w')
lblChicken.grid(row=4,column=0)
txtChicken=Entry(f1,font=('arial',16,'bold'), textvariable=Chicken, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtChicken.grid(row=4,column=1)
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```
lblPizza = Label(f1,font=('arial',16,'bold'), text="Pizza", bd=16, anchor='w')
lblPizza.grid(row=5,column=0)
txtPizza=Entry(f1,font=('arial',16,'bold'), textvariable=Pizza, bd=10,
insertwidth=4,bg="powder blue", justify = 'right')
txtPizza.grid(row=5,column=1)
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#=====Restaurant Info
2=====
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lblDrinks = Label(f1,font=('arial',16,'bold'), text="Drinks", bd=16, anchor='w')
lblDrinks.grid(row=0,column=2)
txtDrinks=Entry(f1,font=('arial',16,'bold'), textvariable=Drinks, bd=10,
insertwidth=4,bg="#ffffff", justify = 'right')
txtDrinks.grid(row=0,column=3)
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lblCost = Label(f1,font=('arial',16,'bold'), text="Cost of Meal", bd=16,
anchor='w')
lblCost.grid(row=1,column=2)
txtCost=Entry(f1,font=('arial',16,'bold'), textvariable=Cost, bd=10,
insertwidth=4,bg="#ffffff", justify = 'right')
txtCost.grid(row=1,column=3)
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lblService_Charge = Label(f1,font=('arial',16,'bold'), text="Service Charge",
bd=16, anchor='w')
lblService_Charge.grid(row=2,column=2)
txtService_Charge =Entry(f1,font=('arial',16,'bold'), textvariable=Service_Charge,
bd=10, insertwidth=4,bg="#ffffff", justify = 'right')
txtService_Charge.grid(row=2,column=3)


lblTax = Label(f1,font=('arial',16,'bold'), text="State Tax", bd=16, anchor='w')
lblTax.grid(row=3,column=2)
txtTax=Entry(f1,font=('arial',16,'bold'), textvariable=Tax, bd=10,
insertwidth=4,bg="#ffffff", justify = 'right')
txtTax.grid(row=3,column=3)


lblSubTotal = Label(f1,font=('arial',16,'bold'), text="Sub Total", bd=16,
anchor='w')
lblSubTotal.grid(row=4,column=2)
txtSubTotal=Entry(f1,font=('arial',16,'bold'), textvariable=SubTotal, bd=10,
insertwidth=4,bg="#ffffff", justify = 'right')
txtSubTotal.grid(row=4,column=3)


lblTotal = Label(f1,font=('arial',16,'bold'), text="Total Cost", bd=16, anchor='w')
lblTotal.grid(row=5,column=2)
txtTotal=Entry(f1,font=('arial',16,'bold'), textvariable=Total, bd=10,
insertwidth=4,bg="#ffffff", justify = 'right')
txtTotal.grid(row=5,column=3)


#=====Buttons=====
btnTotal=Button(f1,padx=16,pady=8, bd=16, fg="black",font=('arial',16,'bold'),
width=10,text="Total", bg="powder blue", command = Ref).grid(row=7, column=1)

btnReset=Button(f1,padx=16,pady=8, bd=16, fg="black",font=('arial',16,'bold'),
width=10,text="Reset", bg="powder blue", command = Reset).grid(row=7, column=2)

btnExit=Button(f1,padx=16,pady=8, bd=16, fg="black",font=('arial',16,'bold'),
width=10,text="Exit", bg="powder blue", command = qExit).grid(row=7, column=3)


root.mainloop()

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