**Below is the source code for the project:**

# importing the packages

from tkinter import\*

from tkinter import ttk

from tkinter import messagebox

import random

import time

import datetime

root = Tk()

root.geometry("1350x650+0+0")

root.title("TJ HotDog OS")

root.configure(background='black')

# defining the exit button function

def Exit():

qExit = messagebox.askyesno("TJ HotDog OS ", "Do you want to Exit the system?")

if qExit > 0:

root.destroy()

return

# defining the reset function

def Reset():

CustomerRef.set("")

Tax.set("")

SubTotal.set("")

TotalCost.set("")

CustomerName.set("")

CustomerPhone.set("")

CustomerEmail.set("")

# Defining the order reference function

def OrderRef():

refPay =random.randint(10000, 7009467)

Refpaid = ("OS" + str(refPay))

CustomerRef.set(Refpaid)

#defining the cost of order function and setting the formula to calculate the tax rate, subtotal #and total cost of purchase items

def CostofOrder():

Qty1=float(QtyHotdog.get())

Qty2 = float(QtyChilidog.get())

Qty3 = float(QtyCheesedog.get())

UnitPrice1= float(UnitPriceHotdog.get())

UnitPrice2 = float(UnitPriceChilidog.get())

UnitPrice3 = float(UnitPriceCheesedog.get())

CostofHdog1 = '$', str('%.2f'%(Qty1 \* UnitPrice1))

CostofHdog2 = '$', str('%.2f'%(Qty2 \* UnitPrice2))

CostofHdog3 = '$', str('%.2f'%(Qty3 \* UnitPrice3))

CostofHotdog.set(CostofHdog1 )

CostofChilidog.set(CostofHdog2)

CostofCheesedog.set(CostofHdog3)

AllCost = (Qty1 \* UnitPrice1) + (Qty2 \* UnitPrice2)+ (Qty3 \* UnitPrice3)

TaxAll= '$', str('%.2f' % ((AllCost) \* 0.07))

Tax.set(TaxAll)

SubTotalp = '$', str('%.2f' % (AllCost))

SubTotal.set(SubTotalp)

TotalCostp= '$', str('%.2f' % (AllCost + ((AllCost) \* 0.07)))

TotalCost.set(TotalCostp)

return

# defining variables

CustomerRef=StringVar()

Tax=StringVar()

SubTotal=StringVar()

TotalCost=StringVar()

CostofHotdog = StringVar()

CostofChilidog = StringVar()

CostofCheesedog = StringVar()

CostofDelivery= StringVar()

CustomerName = StringVar()

CustomerPhone = StringVar()

CustomerEmail = StringVar()

TimeofOrder = StringVar()

DateofOrder = StringVar()

Discount = StringVar()

CostofCheesedog = StringVar()

CostofHotdog = StringVar()

CostofChilidog = StringVar()

UnitPriceCheesedog = StringVar()

UnitPriceHotdog = StringVar()

UnitPriceChilidog= StringVar()

QtyCheesedog = StringVar()

QtyHotdog = StringVar()

QtyChilidog = StringVar()

Discount = StringVar()

# setting initial value for variables

CostofHotdog.set(0)

CostofChilidog.set(0)

CostofCheesedog.set(0)

UnitPriceCheesedog.set(9.5)

UnitPriceChilidog.set(10)

UnitPriceHotdog.set(12)

QtyCheesedog.set(0)

QtyChilidog.set(0)

QtyHotdog .set(0)

Discount.set(0)

TimeofOrder.set(time.strftime("%H:%M:%S")) # setting the time format value

DateofOrder.set(time.strftime("%m/%d/%y")) # setting the date format value

# setting the frame

Tops=Frame(root, width=1350, height=50, bd=16, relief="raise")

Tops.pack(side=TOP)

LF = Frame(root, width=700, height=650, bd=16, relief="raise")

LF.pack(side=LEFT)

RF = Frame(root, width=600, height=650, bd=16, relief="raise")

RF.pack(side=RIGHT)

Tops.configure(background='black')

LF.configure(background='black')

RF.configure(background='black')

LeftInsideLF= Frame(LF,width=700, height=100, bd=8, relief="raise")

LeftInsideLF.pack(side = TOP)

LeftInsideLFLF= Frame(LF,width=700, height=400, bd=8, relief="raise")

LeftInsideLFLF.pack(side = LEFT)

RightInsideLF= Frame(RF,width=604, height=200, bd=8, relief="raise")

RightInsideLF.pack(side = TOP)

RightInsideLFLF= Frame(RF,width=306, height=400, bd=8, relief="raise")

RightInsideLFLF.pack(side = LEFT)

RightInsideRFRF= Frame(RF,width=300, height=400, bd=8, relief="raise")

RightInsideRFRF.pack(side = RIGHT)

# putting the label for project title

lblInfo= Label(Tops, font=('arial',50, 'bold'), text = " TJ HotDog OS ",

bd = 10, anchor='w')

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

# labeling the top left frame

lblCustomerName= Label(LeftInsideLF, font=('arial', 14, 'bold'), text="Customer Name",

fg="black",bd=10, anchor='w' )

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

txtCustomerName= Entry(LeftInsideLF, font=('arial', 14, 'bold'), bd=20, width=43,

bg="white", justify='left', textvariable=CustomerName)

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

lblCustomerPhone= Label(LeftInsideLF, font=('arial', 14, 'bold'), text="Customer Phone",

fg="black",bd=10, anchor='w' )

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

txtCustomerPhone= Entry(LeftInsideLF, font=('arial', 14, 'bold'), bd=20, width=43,

bg="white", justify='left', textvariable=CustomerPhone)

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

lblCustomerEmail= Label(LeftInsideLF, font=('arial', 14, 'bold'), text="Customer Email",

fg="black",bd=10, anchor='w' )

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

txtCustomerEmail= Entry(LeftInsideLF, font=('arial', 14, 'bold'), bd=20, width=43,

bg="white", justify='left', textvariable=CustomerEmail)

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

# labeling the Top Right Frame

lblDateofOrder= Label(RightInsideLF, font=('arial', 12, 'bold'), text= "Date of order",

fg="black", bd=10,anchor='w')

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

txtDateofOrder=Entry(RightInsideLF, font=('arial', 12, 'bold'),bd=20,

width=42,bg="white", textvariable=DateofOrder)

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

lblTimeofOrder= Label(RightInsideLF, font=('arial', 12, 'bold'), text= "Time of Order",

fg="black", bd=10,anchor='w')

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

txtTimeofOrder=Entry(RightInsideLF, font=('arial', 12, 'bold'),bd=20,

width=43,bg="white",justify='left', textvariable=TimeofOrder)

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

lblCustomerRef= Label(RightInsideLF, font=('arial', 12, 'bold'), text= "Customer Ref",

fg="black", bd=10,anchor='w')

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

txtCustomerRef=Entry(RightInsideLF, font=('arial', 12, 'bold'),bd=20,

width=43,bg="white", textvariable=CustomerRef)

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

# labeling the bottom right frame

lblMethodOfPayment = Label (RightInsideLFLF,font=('arial',12,'bold'),text= "Method Of Payment",

fg="black", bd= 16, anchor="w")

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

cmdMethodOfPayment = ttk.Combobox(RightInsideLFLF,font=('arial',10,'bold'))

cmdMethodOfPayment['value']= (' ', 'cash','Debit Card', 'Master Card', 'Discover Card' )

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

lblDiscount =Label( RightInsideLFLF,font=('arial',12,'bold'), text= "Discount",

fg="black", bd= 16, anchor= 'w')

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

txtDiscount = Entry (RightInsideLFLF,font=('arial',12,'bold'),bd=16,width= 18,

bg="white", justify= 'left', textvariable=Discount)

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

lblTax = Label (RightInsideLFLF, font=('arial', 12, 'bold',), text = "Tax",

fg="black", bd=16, anchor='w')

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

txtTax= Entry (RightInsideLFLF,font=('arial',12,'bold'),bd=16,width= 18,

bg="white", justify= 'left', textvariable=Tax)

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

lblSubTotal= Label(RightInsideLFLF, font=('arial',12,'bold' ),text="Sub Total ",

fg="black", bd=16, anchor='w' )

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

txtSubTotal= Entry (RightInsideLFLF,font=('arial',12,'bold'),bd=16,width= 18,

bg="white", justify= 'left', textvariable=SubTotal)

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

lblTotalCost= Label(RightInsideLFLF, font=('arial',12,'bold' ),text="Total Cost ",

fg="black", bd=16, anchor='w' )

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

txtTotalCost= Entry (RightInsideLFLF,font=('arial',12,'bold'),bd=16,width= 18,

bg="white", justify= 'left', textvariable=TotalCost)

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

# labeling Left bottom frame

lblItemOrder= Label(LeftInsideLFLF,font=('arial',14,'bold' ),text="Item Order", fg="black", bd=20)

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

lblQty= Label(LeftInsideLFLF,font=('arial',14,'bold' ),text="Qty", fg="black", bd=20)

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

lblUnitPrice= Label(LeftInsideLFLF,font=('arial',14,'bold' ),text="Unit Price", fg="black", bd=20)

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

lblCostofItem= Label(LeftInsideLFLF,font=('arial',14,'bold' ),text="Cost of Item", fg="black", bd=20)

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

# framing the items list inside left bottom

lblHotdog=Label(LeftInsideLFLF,font=('arial',14,'bold' ),text="Hot Dog ", fg="black", bd=20)

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

lblChilidog=Label(LeftInsideLFLF,font=('arial',14,'bold'),text="Chili Dog", fg="black", bd=20)

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

lblCheesedog=Label(LeftInsideLFLF,font=('arial',14,'bold'),text="Cheese Dog", fg="black", bd=20)

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

# framing the items quantity inside left bottom

txtQtyHotdog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=QtyHotdog)

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

txtQtyChilidog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=QtyChilidog)

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

txtQtyCheesedog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=QtyCheesedog)

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

# framing the unit price inside left bottom

txtUnitPriceHotdog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=UnitPriceHotdog)

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

txtUnitPriceChilidog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=UnitPriceChilidog)

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

txtUnitPriceCheesedog= Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=UnitPriceCheesedog)

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

# framing the total cost of each hot dog inside left bottom

txtCostofHotdog=Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=CostofHotdog)

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

txtCostofChilidog=Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=CostofChilidog)

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

txtCostofCheesedog=Entry(LeftInsideLFLF,font=('arial',12,'bold'),bd=20, width=16,

bg="white", justify='left',textvariable=CostofCheesedog)

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

# buttons frame

btnTotalCost = Button(RightInsideRFRF,pady=8,bd=8,fg="black",font=('arial',16,'bold'), width=11,

text= "Total Cost",bg="white", command=CostofOrder).grid(row=0,column=0)

btnReset = Button(RightInsideRFRF,pady=8,bd=8,fg="black", font=('arial',16,'bold'), width=11,

text="Reset",bg="white", command=Reset).grid(row=1,column=0)

btnOrderRef = Button(RightInsideRFRF,pady=8,bd=8,fg="black", font=('arial',16,'bold'), width=11,

text="Order Ref",bg="white", command=OrderRef).grid(row=2,column=0)

btnExit = Button(RightInsideRFRF,pady=8,bd=8,fg="black", font=('arial',16,'bold'), width=11,

text="Exit",bg="white", command=Exit).grid(row=3,column=0)

root.mainloop()