import tkinter as tk2  
root2=tk2.Tk()  
canvas=tk2.Canvas(root2,width=900,height=500)  
canvas.pack()  
root2.title("Sentiment Analysis App")  
label1=tk2.Label(root2,text="Hello! Welcome to Nutrihome Sentiment Analysis App! I am your assistant, Sajini. Let's find out whether Nutrihome Restaurant interests you.")  
canvas.create\_window(400,30,window=label1)  
label2=tk2.Label(root2,text="Do you enjoy healthy food?")  
canvas.create\_window(180,60,window=label2)  
def entry1():  
 global appends  
 appends=[]  
 appends.append(1)  
  
def entry1n():  
 global appends  
 appends=[]  
 appends.append(0)  
  
def entry2():  
 appends.append(1)  
  
def entry3():  
 appends.append(0)  
buttony1=tk2.Button(root2,text="Yes",command=entry1,bg="orange")  
canvas.create\_window(330,60,window=buttony1)  
buttonn1=tk2.Button(root2,text="No",command=entry1n,bg="orange")  
canvas.create\_window(370,60,window=buttonn1)  
label3=tk2.Label(root2,text="Are you looking for a delectable meal, yet gluten-free and less calories?")  
canvas.create\_window(190,90,window=label3)  
buttony2=tk2.Button(root2,text="Yes",bg="orange",command=entry2)  
canvas.create\_window(450,90,window=buttony2)  
buttonn2=tk2.Button(root2,text="No",bg="orange",command=entry3)  
canvas.create\_window(490,90,window=buttonn2)  
label4=tk2.Label(root2,text="Are you looking to indulge in guilt-free food in an automated environment (server bots and click-to-order)?")  
canvas.create\_window(300,120,window=label4)  
buttony3=tk2.Button(root2,text="Yes",bg="orange",command=entry2)  
canvas.create\_window(660,120,window=buttony3)  
buttonn3=tk2.Button(root2,text="No",bg="orange",command=entry3)  
canvas.create\_window(700,120,window=buttonn3)  
def buttonnewvalues():  
 from tkinter import Text  
 from tkinter import INSERT  
 import tkinter as tk  
 import pandas as pd  
  
 # Create an instance of tkinter frame  
 window = tk.Tk()  
 window.title("Reviews")  
 # Set the size of the tkinter window  
 window.geometry("600x200")  
  
 # Extract number of rows and columns  
 n\_rows = data.shape[0]  
 n\_cols = data.shape[1]  
  
 # Extracting columns from the data and  
 # creating text widget with some  
 # background color  
 column\_names = data.columns  
 i = 0  
 for j, col in enumerate(column\_names):  
 text = Text(window, width=20, height=1, bg="#9BC2E6")  
 text.grid(row=i, column=j)  
 text.insert(INSERT, col)  
  
 # adding all the other rows into the grid  
 for i in range(n\_rows):  
 for j in range(n\_cols):  
 text = Text(window, width=20, height=1)  
 text.grid(row=i + 1, column=j)  
 text.insert(INSERT, data.loc[i][j])  
 window.attributes('-topmost', 1)  
  
 window.mainloop()  
  
  
  
buttonnew=tk2.Button(root2,text="Reviews for your reference - click here",command=buttonnewvalues,bg="orange")  
canvas.create\_window(700,180,window=buttonnew)  
label6 = tk2.Label(root2, text="Please click on the cross button in the reviews window to continue taking the survey.")  
canvas.create\_window(680, 210, window=label6)  
import pandas as pd  
print("Here are some reviews for your reference.")  
detail2={'Tweets':['Happiness Quotient','Lovely food','Amazing Automation'  
, 'Superb Service', 'Adorable Ambience','Awesome Overall']}  
data=pd.DataFrame(detail2)  
import textblob  
data['Scores']=data['Tweets'].apply(lambda x: textblob.TextBlob(x).sentiment.polarity)  
def map\_scores(scores):  
 if scores > 0.0:  
 return 'positive'  
 else:  
 return 'negative'  
data['Labels']=data['Scores'].apply(lambda x: map\_scores(x))  
print(data)  
  
  
  
label5=tk2.Label(root2,text="If 90% of customers have rated the restaurant as outstanding, are you tempted to visit us?")  
canvas.create\_window(300,150,window=label5)  
buttony4=tk2.Button(root2,text="Yes",bg="orange",command=entry2)  
canvas.create\_window(660,150,window=buttony4)  
buttonn4=tk2.Button(root2,text="No",bg="orange",command=entry3)  
canvas.create\_window(700,150,window=buttonn4)  
  
  
def submitvalues2():  
  
 try:  
 if len(appends) == 0:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information', message='Please click all the buttons to continue.')  
 if answer:  
 root2.mainloop()  
 except NameError:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information', message='Please click all the buttons to continue.')  
 if answer:  
 root2.mainloop()  
 detail = {'Healthy': [1, 0, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 1, 0, 1,0],  
 'Less calories and gluten-free': [1, 0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 0, 1, 0, 1, 0, 1,0],  
 'Automated': [1, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, 1, 1, 0, 0, 1,0],  
 'Tempted by reviews': [1, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 1, 0, 1, 1, 0, 1,0],  
 'Applicable': [1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1,0]}  
 df = pd.DataFrame(detail)  
  
  
  
  
 import numpy as np  
  
 my\_array = np.array(appends)  
 my\_array.reshape(-1, 1)  
 # load library  
  
 print(my\_array)  
  
  
  
 if appends==[0,0,0,0]:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information', message='This restaurant may not interest you.')  
 if answer:  
 root2.destroy()  
 if len(appends)==1:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information',message='Please click all the buttons to continue.')  
 if answer:  
 root2.mainloop()  
 if len(appends)==2:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information',message='Please click all the buttons to continue.')  
 if answer:  
 root2.mainloop()  
 if len(appends)==3:  
 from tkinter import messagebox  
 answer = messagebox.askokcancel(title='Information',message='Please click all the buttons to continue.')  
 if answer:  
 root2.mainloop()  
 X = df[['Healthy', 'Less calories and gluten-free', 'Automated', 'Tempted by reviews']]  
 # choose dependent variable  
 Y = df['Applicable']  
  
 # import library  
 from sklearn.model\_selection import train\_test\_split  
  
 # divide data into train and test  
 x\_train, x\_test, y\_train, y\_test = train\_test\_split(X, Y, test\_size=0.2)  
  
 # import library  
 from sklearn.linear\_model import LogisticRegression  
  
 # train model  
 log\_reg = LogisticRegression(max\_iter=500)  
 log\_reg.fit(x\_train, y\_train)  
  
  
  
 x\_test = my\_array.reshape(1,4)  
  
 # predict x\_test  
 global y\_pred  
 y\_pred = log\_reg.predict(x\_test)  
  
  
  
 if y\_pred == 1:  
 root2.destroy()  
 import tkinter as tk  
  
 root = tk.Tk()  
 canvas1 = tk.Canvas(root, width=900, height=1000)  
 canvas1.pack()  
 root.title("Nutrihome Ordering System")  
 from tkinter import IntVar  
 label1 = tk.Label(root, text=' Price: AED 25 each. ')  
 canvas1.create\_window(240, 60, window=label1)  
 crazycornsoup = tk.Button(root, text="Crazy Corn Soup", bg="pink")  
 canvas1.create\_window(180, 90, window=crazycornsoup)  
 moongdalsoup = tk.Button(root, text="Moong Dal Soup", bg="pink")  
 canvas1.create\_window(180, 120, window=moongdalsoup)  
 tangytomatosoup = tk.Button(root, text="Tangy Tomato Soup", bg="pink")  
 canvas1.create\_window(180, 150, window=tangytomatosoup)  
 lemoncoriandersoup = tk.Button(root, text="Lovable Lemon Coriander Soup", bg="pink")  
 canvas1.create\_window(180, 180, window=lemoncoriandersoup)  
 lentilvegetablesoup = tk.Button(root, text="Lentil Vegetable Soup",  
 bg="pink")  
 canvas1.create\_window(180, 210, window=lentilvegetablesoup)  
 global var1  
 var1 = IntVar()  
 var1.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(260, 90, window=label2)  
 entry1 = tk.Entry(root, textvariable=var1)  
 canvas1.create\_window(360, 90, window=entry1)  
 global var2  
 var2 = IntVar()  
 var2.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(260, 120, window=label2)  
 entry2 = tk.Entry(root, textvariable=var2)  
 canvas1.create\_window(360, 120, window=entry2)  
 global var3  
 var3 = IntVar()  
 var3.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(270, 150, window=label2)  
 entry1 = tk.Entry(root, textvariable=var3)  
 canvas1.create\_window(370, 150, window=entry1)  
 global var4  
 var4 = IntVar()  
 var4.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(300, 180, window=label2)  
 entry1 = tk.Entry(root, textvariable=var4)  
 canvas1.create\_window(400, 180, window=entry1)  
 global var5  
 var5 = IntVar()  
 var5.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(300, 210, window=label2)  
 entry1 = tk.Entry(root, textvariable=var5)  
 canvas1.create\_window(400, 210, window=entry1)  
  
  
  
 label1 = tk.Label(root, text=' Price: AED 45 each. ')  
 canvas1.create\_window(240, 280, window=label1)  
 salad1 = tk.Button(root, text="Tasty Tomato and Onion Salad", bg="pink")  
 canvas1.create\_window(180, 310, window=salad1)  
 salad2 = tk.Button(root, text="Celestial Cucumber and Broccoli Salad", bg="pink")  
 canvas1.create\_window(180, 340, window=salad2)  
 salad3 = tk.Button(root, text="Spinach Quinoa Salad", bg="pink")  
 canvas1.create\_window(180, 370, window=salad3)  
 salad4 = tk.Button(root, text="Vegassionate Salad (Full of Vegetables)", bg="pink")  
 canvas1.create\_window(150, 400, window=salad4)  
 global var6  
 var6 = IntVar()  
 var6.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(300, 310, window=label2)  
 entry1 = tk.Entry(root, textvariable=var6)  
 canvas1.create\_window(400, 310, window=entry1)  
 global var7  
 var7 = IntVar()  
 var7.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(320, 340, window=label2)  
 entry1 = tk.Entry(root, textvariable=var7)  
 canvas1.create\_window(420, 340, window=entry1)  
 global var8  
 var8 = IntVar()  
 var8.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(290, 370, window=label2)  
 entry1 = tk.Entry(root, textvariable=var8)  
 canvas1.create\_window(390, 370, window=entry1)  
 global var9  
 var9 = IntVar()  
 var9.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(300, 400, window=label2)  
 entry1 = tk.Entry(root, textvariable=var9)  
 canvas1.create\_window(400, 400, window=entry1)  
  
 label1 = tk.Label(root, text=' Price: AED 40 each. ')  
 canvas1.create\_window(240, 460, window=label1)  
 starter1 = tk.Button(root, text="Alphabet Fritters", bg="pink")  
 canvas1.create\_window(180, 490, window=starter1)  
 starter2 = tk.Button(root, text="Emoji Manchurian", bg="pink")  
 canvas1.create\_window(180, 520, window=starter2)  
 starter3 = tk.Button(root, text="Harry Potter Crisps", bg="pink")  
 canvas1.create\_window(180, 550, window=starter3)  
 global var10  
 var10 = IntVar()  
 var10.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(270, 490, window=label2)  
 entry1 = tk.Entry(root, textvariable=var10)  
 canvas1.create\_window(370, 490, window=entry1)  
 global var11  
 var11 = IntVar()  
 var11.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(270, 520, window=label2)  
 entry1 = tk.Entry(root, textvariable=var11)  
 canvas1.create\_window(370, 520, window=entry1)  
 global var12  
 var12 = IntVar()  
 var12.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(270, 550, window=label2)  
 entry1 = tk.Entry(root, textvariable=var12)  
 canvas1.create\_window(370, 550, window=entry1)  
  
 label1 = tk.Label(root, text=' Price: AED 55 each. ')  
 canvas1.create\_window(180, 610, window=label1)  
 main1 = tk.Button(root, text="Zucchini Pasta", bg="pink")  
 canvas1.create\_window(100, 640, window=main1)  
 main2 = tk.Button(root, text="Zucchini Noodles", bg="pink")  
 canvas1.create\_window(70, 670, window=main2)  
 main3 = tk.Button(root, text="Roasted Cauliflower Pizza", bg="pink")  
 canvas1.create\_window(70, 700, window=main3)  
 main4 = tk.Button(root, text="Mushroom Quinoa Burger", bg="pink")  
 canvas1.create\_window(70, 730, window=main4)  
 main5 = tk.Button(root, text="Grilled Tofu Sandwich", bg="pink")  
 canvas1.create\_window(420, 640, window=main5)  
 main6 = tk.Button(root, text="Vegetable Burritos", bg="pink")  
 canvas1.create\_window(450, 670, window=main6)  
 main7 = tk.Button(root, text="Tomato Risotto", bg="pink")  
 canvas1.create\_window(480, 700, window=main7)  
 main8 = tk.Button(root, text="Dal Risotto", bg="pink")  
 canvas1.create\_window(510, 730, window=main8)  
 main9 = tk.Button(root, text="Curd Risotto", bg="pink")  
 canvas1.create\_window(540, 760, window=main9)  
 global var13  
 var13 = IntVar()  
 var13.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(190, 640, window=label2)  
 entry1 = tk.Entry(root, textvariable=var13)  
 canvas1.create\_window(290, 640, window=entry1)  
 global var14  
 var14 = IntVar()  
 var14.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(190, 670, window=label2)  
 entry1 = tk.Entry(root, textvariable=var14)  
 canvas1.create\_window(290, 670, window=entry1)  
 global var15  
 var15 = IntVar()  
 var15.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(190, 700, window=label2)  
 entry1 = tk.Entry(root, textvariable=var15)  
 canvas1.create\_window(290, 700, window=entry1)  
 global var16  
 var16 = IntVar()  
 var16.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(190, 730, window=label2)  
 entry1 = tk.Entry(root, textvariable=var16)  
 canvas1.create\_window(290, 730, window=entry1)  
 global var17  
 var17 = IntVar()  
 var17.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(520, 640, window=label2)  
 entry1 = tk.Entry(root, textvariable=var17)  
 canvas1.create\_window(620, 640, window=entry1)  
 global var18  
 var18 = IntVar()  
 var18.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(550, 670, window=label2)  
 entry1 = tk.Entry(root, textvariable=var18)  
 canvas1.create\_window(650, 670, window=entry1)  
 global var19  
 var19 = IntVar()  
 var19.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(580, 700, window=label2)  
 entry1 = tk.Entry(root, textvariable=var19)  
 canvas1.create\_window(680, 700, window=entry1)  
 global var20  
 var20 = IntVar()  
 var20.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(610, 730, window=label2)  
 entry1 = tk.Entry(root, textvariable=var20)  
 canvas1.create\_window(710, 730, window=entry1)  
 global var21  
 var21 = IntVar()  
 var21.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(640, 760, window=label2)  
 entry1 = tk.Entry(root, textvariable=var21)  
 canvas1.create\_window(740, 760, window=entry1)  
  
 label1 = tk.Label(root, text=' Price: AED 35 each. ')  
 canvas1.create\_window(600, 390, window=label1)  
 dessert1 = tk.Button(root, text="Oat Cookies", bg="pink")  
 canvas1.create\_window(600, 410, window=dessert1)  
 dessert2 = tk.Button(root, text="Apple Nachos", bg="pink")  
 canvas1.create\_window(600, 440, window=dessert2)  
 dessert3 = tk.Button(root, text="Chia Pudding", bg="pink")  
 canvas1.create\_window(600, 470, window=dessert3)  
 dessert4 = tk.Button(root, text="Banana Pops", bg="pink")  
 canvas1.create\_window(600, 500, window=dessert4)  
 dessert5 = tk.Button(root, text="Dark Chocolate Strawberry Cubes", bg="pink")  
 canvas1.create\_window(600, 530, window=dessert5)  
 dessert6 = tk.Button(root, text="Still and Sparkling Water", bg="pink")  
 canvas1.create\_window(600, 560, window=dessert6)  
 global var22  
 var22 = IntVar()  
 var22.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(680, 410, window=label2)  
 entry1 = tk.Entry(root, textvariable=var22)  
 canvas1.create\_window(780, 410, window=entry1)  
 global var23  
 var23 = IntVar()  
 var23.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(680, 440, window=label2)  
 entry1 = tk.Entry(root, textvariable=var23)  
 canvas1.create\_window(780, 440, window=entry1)  
 global var24  
 var24 = IntVar()  
 var24.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(680, 470, window=label2)  
 entry1 = tk.Entry(root, textvariable=var24)  
 canvas1.create\_window(780, 470, window=entry1)  
 global var25  
 var25 = IntVar()  
 var25.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(680, 500, window=label2)  
 entry1 = tk.Entry(root, textvariable=var25)  
 canvas1.create\_window(780, 500, window=entry1)  
 global var26  
 var26 = IntVar()  
 var26.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(740, 530, window=label2)  
 entry1 = tk.Entry(root, textvariable=var26)  
 canvas1.create\_window(840, 530, window=entry1)  
 global var27  
 var27 = IntVar()  
 var27.set(0)  
 label2 = tk.Label(root, text="Quantity: ")  
 canvas1.create\_window(700, 560, window=label2)  
 entry1 = tk.Entry(root, textvariable=var27)  
 canvas1.create\_window(800, 560, window=entry1)  
  
  
  
  
 def calculate():  
 resultList = [var1.get() \* 25, var2.get() \* 25, var3.get() \* 25, var4.get() \* 25, var5.get() \* 25]  
 global resultSum  
 resultSum = sum(resultList)  
 print(resultSum)  
 l = tk.Label(root, text=resultSum)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(600, 60, window=l)  
 canvas1.create\_window(640, 60, window=i)  
  
 def calculate2():  
 resultList = [var6.get() \* 45, var7.get() \* 45, var8.get() \* 45, var9.get() \* 45]  
 global resultSum2  
 resultSum2 = sum(resultList)  
 print(resultSum2)  
 l = tk.Label(root, text=resultSum2)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(600, 120, window=l)  
 canvas1.create\_window(640, 120, window=i)  
  
 def calculate3():  
 resultList = [var10.get() \* 40, var11.get() \* 40, var12.get() \* 40]  
 global resultSum3  
 resultSum3 = sum(resultList)  
 print(resultSum3)  
 l = tk.Label(root, text=resultSum3)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(600, 180, window=l)  
 canvas1.create\_window(640, 180, window=i)  
  
 def calculate4():  
 resultList = [var13.get() \* 55, var14.get() \* 55, var15.get() \* 55, var16.get() \* 55, var17.get() \* 55,  
 var18.get() \* 55, var19.get() \* 55, var20.get() \* 55, var21.get() \* 55]  
 global resultSum4  
 resultSum4 = sum(resultList)  
 print(resultSum4)  
 l = tk.Label(root, text=resultSum4)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(600, 240, window=l)  
 canvas1.create\_window(640, 240, window=i)  
  
  
  
 def calculate5():  
 resultList = [var22.get() \* 35, var23.get() \* 35, var24.get() \* 35, var25.get() \* 35, var25.get() \* 35,  
 var26.get() \* 35, var27.get() \* 35]  
 global resultSum5  
 resultSum5 = sum(resultList)  
 print(resultSum5)  
 l = tk.Label(root, text=resultSum5)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(600, 300, window=l)  
 canvas1.create\_window(640, 300, window=i)  
  
 def calculatetotal():  
 from tkinter import NORMAL  
 totalresultList = [resultSum, resultSum2, resultSum3, resultSum4, resultSum5]  
 finalbill = sum(totalresultList)  
 print(finalbill)  
 k = tk.Label(root, text="Your final bill is: ")  
 l = tk.Label(root, text=finalbill)  
 i = tk.Label(root, text="AED")  
 canvas1.create\_window(750, 60, window=k)  
 canvas1.create\_window(750, 100, window=l)  
 canvas1.create\_window(780, 100, window=i)  
 proceed = tk.Button(root, text="Done and proceed to checkout", state=NORMAL, command=done, bg="red")  
 canvas1.create\_window(780, 150, window=proceed)  
  
  
 def done():  
 label4 = tk.Label(root, text="Please pay by card.")  
 canvas1.create\_window(820, 220, window=label4)  
 pay = tk.Button(root, text="Click once you have paid.", command=thank, bg="red")  
 canvas1.create\_window(820, 260, window=pay)  
  
 def thank():  
 label5 = tk.Label(root, text="Thank you for ordering.")  
 canvas1.create\_window(820, 300, window=label5)  
 root.destroy()  
 import tkinter as tk3  
  
 root3 = tk3.Tk()  
 canvas3 = tk3.Canvas(root3, width=500, height=1000)  
 canvas3.pack()  
 root3.title("System of Feedback")  
 label20 = tk3.Label(root3, text="We request your valuable feedback.")  
 canvas3.create\_window(180, 30, window=label20)  
 label30 = tk3.Label(root3, text="Would you like to give your feedback in speech or in text format?")  
 canvas3.create\_window(170, 60, window=label30)  
  
 def submitbvalues():  
 root3.destroy()  
 import tkinter as tk  
  
 root = tk.Tk()  
 canvas1 = tk.Canvas(root, width=1000, height=500)  
 canvas1.pack()  
 root.title("Speech Emotion Detection App")  
  
 def beginvalues():  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.say(  
 "Hello. Welcome to the restaurant's speech emotion feedback detection app. Did you like the food in the restaurant?")  
 friend.runAndWait()  
  
 def answer1values():  
 import speech\_recognition as sr  
 r = sr.Recognizer()  
  
 try:  
 with sr.Microphone() as source2:  
  
 print("Speak it out...")  
 r.adjust\_for\_ambient\_noise(source2, duration=0.2)  
 audio2 = r.listen(source2)  
 MyText = r.recognize\_google(audio2)  
  
 except sr.UnknownValueError:  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.say("Could you please respond?")  
 friend.runAndWait()  
  
 records1 = []  
 records1.append(MyText)  
  
 from textblob import TextBlob  
 def get\_sentiment(sentx):  
 analysis = TextBlob(sentx)  
 if analysis.sentiment.polarity > 0.0:  
 return ['positive']  
 elif MyText == "yes":  
 return ["positive"]  
 elif MyText == "no":  
 return ["negative"]  
 else:  
 return ["negative"]  
  
 sentiments\_total = {'negative': 0, 'positive': 0}  
 for recd\_sent1 in records1:  
 sentiment = get\_sentiment(recd\_sent1)  
 sentiment = str(sentiment)  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say("Your feedback for this question is" + sentiment)  
 friend.runAndWait()  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say(  
 "Thank you for answering the question. How were the automated services, were they user friendly?")  
 friend.runAndWait()  
  
 def answer2values():  
 import speech\_recognition as sr  
 r = sr.Recognizer()  
 try:  
 with sr.Microphone() as source2:  
 print("Speak it out...")  
 r.adjust\_for\_ambient\_noise(source2, duration=0.2)  
 audio3 = r.listen(source2)  
 MyText2 = r.recognize\_google(audio3)  
  
  
 except sr.UnknownValueError:  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.say("Could you please respond?")  
 friend.runAndWait()  
  
 records2 = []  
 records2.append(MyText2)  
  
 from textblob import TextBlob  
 def get\_sentiment(sentx):  
 analysis = TextBlob(sentx)  
 if analysis.sentiment.polarity > 0.0:  
 return ['positive']  
 elif MyText2 == "yes":  
 return ["positive"]  
 elif MyText2 == "no":  
 return ["negative"]  
 else:  
 return ['negative']  
  
 sentiments\_total = {'negative': 0, 'positive': 0}  
 for recd\_sent2 in records2:  
 sentiment2 = get\_sentiment(recd\_sent2)  
 sentiment2 = str(sentiment2)  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say("Your feedback for this question is" + sentiment2)  
  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say(  
 "Thank you for answering the question. Will you recommend this restaurant to your friends and relatives?")  
 friend.runAndWait()  
  
 def answer3values():  
 import pyttsx3  
 friend = pyttsx3.init()  
 import speech\_recognition as sr  
 r = sr.Recognizer()  
 try:  
 with sr.Microphone() as source2:  
 print("Speak it out...")  
 r.adjust\_for\_ambient\_noise(source2, duration=0.2)  
 audio4 = r.listen(source2)  
 MyText3 = r.recognize\_google(audio4)  
  
  
 except sr.UnknownValueError:  
 friend.say("Could you please respond?")  
 friend.runAndWait()  
  
 records3 = []  
 records3.append(MyText3)  
  
 from textblob import TextBlob  
 def get\_sentiment(sentx):  
 analysis = TextBlob(sentx)  
 if analysis.sentiment.polarity > 0.0:  
 return ['positive']  
 elif MyText3 == "yes":  
 return ["positive"]  
 elif MyText3 == "no":  
 return ["negative"]  
 else:  
 return ['negative']  
  
 sentiments\_total = {'negative': 0, 'positive': 0}  
 for recd\_sent3 in records3:  
 sentiment3 = get\_sentiment(recd\_sent3)  
 sentiment3 = str(sentiment3)  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say("Your feedback for this question is" + sentiment3)  
  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say("Thank you for answering the question. Will you visit this restaurant again?")  
 friend.runAndWait()  
  
 def answer4values():  
 import pyttsx3  
 friend = pyttsx3.init()  
 import speech\_recognition as sr  
 r = sr.Recognizer()  
 try:  
 with sr.Microphone() as source2:  
 print("Speak it out...")  
 r.adjust\_for\_ambient\_noise(source2, duration=0.2)  
 audio5 = r.listen(source2)  
 MyText4 = r.recognize\_google(audio5)  
  
  
 except sr.UnknownValueError:  
 friend.say("Could you please respond?")  
 friend.runAndWait()  
  
 records4 = []  
 records4.append(MyText4)  
  
 from textblob import TextBlob  
 def get\_sentiment(sentx):  
 analysis = TextBlob(sentx)  
 if analysis.sentiment.polarity > 0.0:  
 return ['positive']  
 elif MyText4 == "yes":  
 return ["positive"]  
 elif MyText4 == "no":  
 return ["negative"]  
 else:  
 return ['negative']  
  
 sentiments\_total = {'negative': 0, 'positive': 0}  
 for recd\_sent4 in records4:  
 sentiment4 = get\_sentiment(recd\_sent4)  
 sentiment4 = str(sentiment4)  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say("Your feedback for this question is" + sentiment4)  
  
 friend = pyttsx3.init()  
 friend.runAndWait()  
 friend.say(  
 "Thank you for answering the question. Do you have any other feedback for improvement")  
 friend.runAndWait()  
  
 def answer5values():  
 import pyttsx3  
 friend = pyttsx3.init()  
 import speech\_recognition as sr  
 r = sr.Recognizer()  
 try:  
 with sr.Microphone() as source2:  
 print("Speak it out...")  
 r.adjust\_for\_ambient\_noise(source2, duration=0.2)  
 audio6 = r.listen(source2)  
 MyText5 = r.recognize\_google(audio6)  
  
  
 except sr.UnknownValueError:  
 friend.say("Could you please respond?")  
 friend.runAndWait()  
 import pyttsx3  
 friend = pyttsx3.init()  
 friend.say("Thank you for your valuable feedback.")  
 friend.runAndWait()  
 root.destroy()  
  
 begin = tk.Button(root, text="Let's begin with your feedback", command=beginvalues, bg="orange")  
 canvas1.create\_window(210, 30, window=begin)  
 answer1 = tk.Button(root, text="Click to answer the question, Did you like the food in the restaurant?",  
 command=answer1values, bg="pink")  
 canvas1.create\_window(210, 60, window=answer1)  
 answer2 = tk.Button(root,  
 text="Click to answer the question, How were the automated services, were they user-friendly?",  
 command=answer2values, bg="pink")  
 canvas1.create\_window(240, 90, window=answer2)  
 answer3 = tk.Button(root,  
 text="Click to answer the question, Will you recommend this restaurant to your friends and relatives?",  
 command=answer3values, bg="pink")  
 canvas1.create\_window(260, 120, window=answer3)  
 answer4 = tk.Button(root, text="Click to answer the question, Will you visit the restaurant again?",  
 command=answer4values,  
 bg="pink")  
 canvas1.create\_window(230, 150, window=answer4)  
 answer5 = tk.Button(root,  
 text="Click to answer the question, Any other feedback for improvement?",  
 command=answer5values, bg="pink")  
 canvas1.create\_window(230, 180, window=answer5)  
 label1 = tk.Label(root,  
 text="Please click on the first button to begin and then click on the further buttons to answer the questions asked.")  
 canvas1.create\_window(290, 10, window=label1)  
 root.mainloop()  
  
 def submitvaluesnew():  
 root3.destroy()  
 import tkinter as tk  
 root = tk.Tk()  
 canvas1 = tk.Canvas(root, width=900, height=1000)  
 canvas1.pack()  
 root.title("Conversational Talking Chatbot")  
 label1 = tk.Label(root, text="Welcome to Nutrihome's Conversational Talking Feedback Chatbot.")  
 canvas1.create\_window(180, 30, window=label1)  
 label2 = tk.Label(root, text="Did you like the food in the restaurant?")  
 canvas1.create\_window(120, 60, window=label2)  
 entry1 = tk.Entry(root)  
 canvas1.create\_window(350, 60, window=entry1)  
 label3 = tk.Label(root, text="Was Nutrihome user-friendly?")  
 canvas1.create\_window(120, 90, window=label3)  
 entry2 = tk.Entry(root)  
 canvas1.create\_window(350, 90, window=entry2)  
 label4 = tk.Label(root, text="Will you recommend Nutrihome to people?")  
 canvas1.create\_window(120, 120, window=label4)  
 entry5 = tk.Entry(root)  
 canvas1.create\_window(350, 120, window=entry5)  
 label5 = tk.Label(root, text="Will you visit this restaurant again?")  
 canvas1.create\_window(100, 150, window=label5)  
 entry6 = tk.Entry(root)  
 canvas1.create\_window(350, 150, window=entry6)  
 label6 = tk.Label(root, text="Any other feedback for improvement?")  
 canvas1.create\_window(100, 180, window=label6)  
 entry7 = tk.Entry(root)  
 canvas1.create\_window(350, 180, window=entry7)  
  
 def submitvalues():  
 label = tk.Label(root, text="Thank you for your valuable feedback.")  
 canvas1.create\_window(180, 270, window=label)  
  
 def close():  
 root.destroy()  
  
 close = tk.Button(root, text="Close", command=close, bg="orange")  
 canvas1.create\_window(180, 300, window=close)  
  
 submitch = tk.Button(root, text="Submit", command=submitvalues, bg="orange")  
 canvas1.create\_window(180, 240, window=submitch)  
  
 def buttonnewvalues():  
 root.destroy()  
  
 buttonnew = tk.Button(root, text="Close", command=buttonnewvalues, bg="orange")  
 canvas1.create\_window(180, 270, window=buttonnew)  
  
 speechb = tk3.Button(root3, text="Speech", command=submitbvalues, bg="orange")  
 canvas3.create\_window(370, 60, window=speechb)  
 textb = tk3.Button(root3, text="Text", command=submitvaluesnew, bg="orange")  
 canvas3.create\_window(370, 90, window=textb)  
 root3.mainloop()  
  
 from tkinter import DISABLED  
  
 label3 = tk.Label(root, text=' Please click on all the items but mention the quantity. ')  
 canvas1.create\_window(180, 10, window=label3)  
 soups = tk.Button(root, text="Amazing Appetizers - Soups", bg="orange")  
 canvas1.create\_window(180, 30, window=soups)  
 salads = tk.Button(root, text="Salads - Made to Order", bg="orange")  
 canvas1.create\_window(180, 240, window=salads)  
 starters = tk.Button(root, text="Starters - All Baked, Oil Free", bg="orange")  
 canvas1.create\_window(180, 430, window=starters)  
 maincourse = tk.Button(root, text="Main Course", bg="orange")  
 canvas1.create\_window(180, 580, window=maincourse)  
 dessert = tk.Button(root, text="Healthy Desserts", bg="orange")  
 canvas1.create\_window(600, 350, window=dessert)  
 submit = tk.Button(root, text="Total cost of soups", command= calculate,bg="light green")  
 canvas1.create\_window(600, 30, window=submit)  
 submit2 = tk.Button(root, text="Total cost of salads", command=calculate2,bg="light green")  
 canvas1.create\_window(600, 90, window=submit2)  
 submit3 = tk.Button(root, text="Total cost of starters", command=calculate3,bg="light green")  
 canvas1.create\_window(600, 150, window=submit3)  
 submit4 = tk.Button(root, text="Total cost of main course", command=calculate4,bg="light green")  
 canvas1.create\_window(600, 210, window=submit4)  
 submit5 = tk.Button(root, text="Total cost of desserts", command=calculate5,bg="light green")  
 canvas1.create\_window(600, 270, window=submit5)  
 final = tk.Button(root, text="Final bill",command=calculatetotal,bg="red")  
 canvas1.create\_window(780, 30, window=final)  
 proceed = tk.Button(root, text="Done and proceed to checkout", state=DISABLED,command=done, bg="red")  
 canvas1.create\_window(780, 150, window=proceed)  
 label6 = tk.Label(root,text=' Please click on all the light green buttons even if you have not ordered the item. ')  
 canvas1.create\_window(610, 10, window=label6)  
  
  
  
  
  
submit=tk2.Button(root2,text="Submit",bg="orange",command=submitvalues2)  
canvas.create\_window(180,180,window=submit)  
  
root2.mainloop()