

```
[1]: #===== Importing Suitable Libraries =====
from tkinter import *
import tkinter as tk
from tkinter.scrolledtext import ScrolledText
import requests
from tkinter import messagebox
import random
from datetime import datetime
from tkinter import filedialog
#===== End =====

#===== Functions code starts here =====

# ===== Total Button Code =====
def total_bills():

    # ===== Drinks Items price =====
    lassi_price = 50
    coffee_price = 20
    tea_price = 10
    juice_price = 30
    shakes_price = 50
    milk_price = 20
    shikanji price = 15
```

```

def total_bills():

    # ===== Drinks Items price =====
    lassi_price = 50
    coffee_price = 20
    tea_price = 10
    juice_price = 30
    shakes_price = 50
    milk_price = 20
    shikanji_price = 15
    redbull_price = 150
    # ===== Foods Items Price =====
    roti_price = 5
    dal_makhni_price = 120
    mutter_panner_price = 150
    paratha_price = 40
    mix_veg_price = 70
    omelete_price = 20
    veg_biryani_price = 120
    rice_price = 50

    # ===== Drinks Item quantity =====
    lassi_q = lassi_qty.get()
    coffee_q = coffee_qty.get()
    tea_q = tea_qty.get()
    juice_q = juice_qty.get()
    shakes_q = shakes_qty.get()
    milk_q = milk_qty.get()
    shikanji_q = shikanji_qty.get()
    redbull_q = redbull_qty.get()
    roti_q = roti_qty.get()
    dal_makhni_q = dal_makhni_qty.get()
    mutter_panner_q = mutter_panner_qty.get()
    paratha_q = paratha_qty.get()
    mix_veg_q = mix_veg_qty.get()
    omelete_q = omelete_qty.get()
    veg_biryani_q = veg_biryani_qty.get()
    rice_q = rice_qty.get()

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# =====Drinks Item quantity =====
```

```
lassi_q = lassi_qty.get()  
coffee_q = coffee_qty.get()  
tea_q = tea_qty.get()  
juice_q = juice_qty.get()  
shakes_q = shakes_qty.get()  
milk_q = milk_qty.get()  
shikanji_q = shikanji_qty.get()  
redbull_q = redbull_qty.get()
```

```
# ===== Foods Item quantity =====
```

```
roti_q = roti_qty.get()  
dal_makhni_q = dal_makhni_qty.get()  
mutter_panner_q = mutter_panner_qty.get()  
paratha_q = paratha_qty.get()  
mix_veg_q = mix_veg_qty.get()  
omelete_q = omelete_qty.get()  
veg_biryani_q = veg_biryani_qty.get()  
rice_q = rice_qty.get()
```

```
# ===== Drinks Items Validation =====
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```
# ===== Drinks Items Validation =====  
if lassi_var.get() == 0:  
    lassi_q = 0  
elif lassi_var.get() == 1 and lassi_qty.get() == "":  
    messagebox.showerror("error", "please fill the lassi quantity")  
    lassi_q = 0  
  
if coffee_var.get() == 0:  
    coffee_q = 0  
elif coffee_var.get() == 1 and coffee_qty.get() == "":  
    messagebox.showerror("error", "please fill the coffee quantity")  
    coffee_q = 0  
  
if tea_var.get() == 0:  
    tea_q = 0  
elif tea_var.get() == 1 and tea_qty.get() == "":  
    messagebox.showerror("error", "please fill the tea quantity")  
    tea_q = 0  
  
if juice_var.get() == 0:  
    juice_q = 0  
elif juice_var.get() == 1 and juice_qty.get() == "":  
    messagebox.showerror("error", "please fill the juice quantity")
```

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if redbull_var.get() == 0:
    redbull_q = 0
elif redbull_var.get() == 1 and redbull_qty.get() == "":
    messagebox.showerror("error", "please fill the redbull quantity")
    redbull_q = 0

# ===== Foods Items Validation =====
if roti_var.get() == 0:
    roti_q = 0
elif roti_var.get() == 1 and roti_qty.get() == "":
    messagebox.showerror("error", "please fill the Roti quantity")
    roti_q = 0
    I

if dal_makhni_var.get() == 0:
    dal_makhni_q = 0
elif dal_makhni_var.get() == 1 and dal_makhni_qty.get() == "":
    messagebox.showerror("error", "please fill the Dal Makhni quantity")
    coffee_q = 0

if mutter_panner_var.get() == 0:
    mutter_panner_q = 0
elif mutter_panner_var.get() == 1 and mutter_panner_qty.get() == "":
    messagebox.showerror("error", "please fill the Mutter panner quantity")
    mutter_panner_q = 0

```

```
# ===== Total Drinks Items Price =====
```

```
total_lassi_price = lassi_price * int(lassi_q)
total_coffee_price = coffee_price * int(coffee_q)
total_tea_price = tea_price * int(tea_q)
total_juice_price = juice_price * int(juice_q)
total_shakes_price = shakes_price * int(shakes_q)
total_milk_price = milk_price * int(milk_q)
total_shikanji_price = shikanji_price * int(shikanji_q)
total_redbull_price = redbull_price * int(redbull_q)
```

```
# ===== Total Drinks cost =====
```

```
total_drinks_cost = total_lassi_price + total_coffee_price + total_tea_price + total_juice_price + total_shakes_price + total_milk_price + total_shikanji_price + total_redbull_price
```

```
if drinks_cost.get() != "":
    drinks_cost.delete(0,"end")
    drinks_cost.insert("end",total_drinks_cost)
else:
    drinks_cost.insert("end",total_drinks_cost)
```

```
# ===== Total Foods Items Price =====
```

```
total_roti_price = roti_price * int(roti_q)
total_dal_makhni_price = dal_makhni_price * int(dal_makhni_q)
total_mutter_panner_price = mutter_panner_price * int(mutter_panner_q)
total_paratha_price = paratha_price * int(paratha_q)
total_mix_veg_price = mix_veg_price * int(mix_veg_q)
```

```

elif rice_var.get() == 1 and rice_qty.get() == "":
    messagebox.showerror("error", "please fill the Rice quantity")
    rice_q = 0

# ===== Total Drinks Items Price =====
total_lassi_price = lassi_price * int(lassi_q)
total_coffee_price = coffee_price * int(coffee_q)
total_tea_price = tea_price * int(tea_q)
total_juice_price = juice_price * int(juice_q)
total_shakes_price = shakes_price * int(shakes_q)
total_milk_price = milk_price * int(milk_q)
total_shikanji_price = shikanji_price * int(shikanji_q)
total_redbull_price = redbull_price * int(redbull_q)

# ===== Total Drinks cost =====
total_drinks_cost = total_lassi_price + total_coffee_price + total_tea_price + total_juice_price + total_shakes_price + total_milk_price + total_shikanji_price + total_redbull_price

if drinks_cost.get() != "":
    drinks_cost.delete(0, "end")
    drinks_cost.insert("end", total_drinks_cost)
else:
    drinks_cost.insert("end", total_drinks_cost)

# ===== Total Foods Items Price =====
total_roti_price = roti_price * int(roti_q)

```

```

if foods_cost.get() != "":
    foods_cost.delete(0,"end")
    foods_cost.insert("end",total_foods_cost)
else:
    foods_cost.insert("end",total_foods_cost)

if service_charge_cost.get() != "":
    service_charge_cost.delete(0,"end")
    service_charge_cost.insert(0,"10")
else:
    service_charge_cost.insert(0,"10")

fc = int(foods_cost.get())
dc = int(drinks_cost.get())

total_paid_tax = fc+dc
total_paid_tax = total_paid_tax * 8 / 100

if paid_tax_cost != "":
    paid_tax_cost.delete(0,"end")
    paid_tax_cost.insert(0,total_paid_tax)
else:
    paid_tax_cost.insert(0,total_paid_tax)

```



```

        sub_total_cost.delete(0,"end")
        sub_total_cost.insert(0,total_sub_cost)
    else:
        sub_total_cost.insert(0,total_sub_cost)

```

```

if total_cost_cost.get() != "":
    total_cost_cost.delete(0,"end")
    total_cost_cost.insert(0,float(total_sub_cost + total_paid_tax))
else:
    total_cost_cost.insert(0,float(total_sub_cost + total_paid_tax))

```

```

# ===== Total Bill Receipt =====
date = datetime.now().date()
if bill_details.get(1.0,"end") != "":
    bill_details.delete(1.0,"end")
    bill_details.insert(1.0,f" Billno-{random.randint(100,1000)}\t{date} ===== Items(q) \t \tAmount =====")
# ===== End =====

```

```

# ===== Save button Code =====

```

```

def save():
    ext_filename = filedialog.asksaveasfile(mode="w", defaultextension=".txt")

```

```
lassi_qty['fg'] = 'white' # End of the function
```

```
# ===== End =====
```

```
# ===== Save button Code =====
```

```
def save():  
    root.filename = filedialog.asksaveasfile(mode="w",defaultextension='.txt')  
    if root.filename is None:  
        return  
    file_save = str(bill_details.get(1.0,END))  
    root.filename.write(file_save)  
    root.filename.close()
```

```
# ===== End =====
```

```
# ===== Drinks checkbutton validation =====
```

```
def lassi_chk():  
    if lassi_var.get() == 1:  
        lassi_qty['state'] = "normal"  
        lassi_qty['bg'] = '#248aa2'  
        lassi_qty['fg'] = "white"  
  
    else:  
        lassi_qty['state'] = "disabled"
```

```
# ===== Drinks checkbutton validation =====
```

```
def lassi_chk():  
    if lassi_var.get() == 1:  
        lassi_qty['state'] = "normal"  
        lassi_qty['bg'] = '#248aa2'  
        lassi_qty['fg'] = "white"  
  
    else:  
        lassi_qty['state'] = "disabled"
```

```
def coffee_chk():  
    if coffee_var.get() == 1:  
        coffee_qty['state'] = "normal"  
        coffee_qty['bg'] = '#248aa2'  
        coffee_qty['fg'] = "white"  
  
    else:  
        coffee_qty['state'] = "disabled"
```

```
def tea_chk():  
    if tea_var.get() == 1:  
        tea_qty['state'] = "normal"  
        tea_qty['bg'] = '#248aa2'  
        tea_qty['fg'] = "white"
```

```
# ===== Calculator code =====
```

```
def nine():  
    if 'error' in result.get() or '=' in result.get():  
        result.delete(0,"end")  
        result.insert("end","9")  
    else:  
        result.insert("end","9")
```

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```
def eight():  
    if 'error' in result.get() or '=' in result.get():  
        result.delete(0,"end")  
        result.insert("end","8")  
    else:  
        result.insert("end","8")
```

```
def seven():  
    if 'error' in result.get() or '=' in result.get():
```

```

frame5 = Frame(root,width=300,height=340,relief=RIDGE,borderwidth=5,bg='#248aa2',highlightbackground="white", high
frame5.place(x=0,y=55)

innerframe5 = Frame(frame5,width=285,height=325,relief=RIDGE,borderwidth=3,bg='#248aa2',highlightbackground="whit
innerframe5.place(x=0,y=0)

13 = LabelFrame(innerframe5,text="Send Bill Through SMS",width=270,height=310,borderwidth=3,font=('verdana',10,'b
13.place(x=2,y=2)

14 = Label(innerframe5,text="Phone Number",font=('verdana',10,'bold'))
14.place(x=40,y=40)

number = Entry(innerframe5,width=30,borderwidth=2)
number.place(x=40,y=70)

15 = Label(innerframe5,text="Bill Details",font=('verdana',10,'bold'))
15.place(x=40,y=100)

```

```

frame5 = Frame(root,width=300,height=340,relief=RIDGE,borderwidth=5,bg='#248aa2',highlightbackground="white", highlightcolor="white", highlightthickness=3)
frame5.place(x=0,y=55)

innerframe5 = Frame(frame5,width=285,height=325,relief=RIDGE,borderwidth=3,bg='#248aa2',highlightbackground="white", highlightcolor="white", highlightthickness=3)
innerframe5.place(x=0,y=0)

13 = LabelFrame(innerframe5,text="Send Bill Through SMS",width=270,height=310,borderwidth=3,font=('verdana',10,'bold'),fg='#248aa2',relief=RIDGE)
13.place(x=2,y=2)

14 = Label(innerframe5,text="Phone Number",font=('verdana',10,'bold'))
14.place(x=40,y=40)

number = Entry(innerframe5,width=30,borderwidth=2)
number.place(x=40,y=70)

15 = Label(innerframe5,text="Bill Details",font=('verdana',10,'bold'))
15.place(x=40,y=100)

b_detail = ScrolledText(innerframe5,width=23,height=7,relief=RIDGE,borderwidth=3)
b_detail.place(x=40,y=130)

b_detail.insert(1.0,bill_details.get(1.0,END))

```

```

def send_bill():
    ph_number = number.get()
    messages = b_detail.get("1.0", "end-1c")

    if ph_number == "":
        messagebox.showerror("Error", 'Please fill the phone number')
    elif messages == "":
        messagebox.showerror("Error", 'Bill Details is empty')
    else:
        url = "https://www.fast2sms.com/dev/bulk"
        api="" #go to fast2sms.com signup to get the free api and put it into here in api variable
        querystring = {"authorization":api,"sender_id":"FSTSMS","message":messages,"language":"english","route":"p","numbers":ph_number}

        headers = {
            'cache-control': "no-cache"
        }
        requests.request("GET", url, headers=headers, params=querystring)

        messagebox.showinfo("Send SMS", 'Bill has been send to your successfully')

send_msg = Button(innerframe5, text="Send Bill", relief=RAISED, borderwidth=2, font=('verdana', 8, 'bold'), bg='#248aa2', fg="white", padx=20, command=send_bill)
send_msg.place(x=100, y=255)

```

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JupyterLab 📄 ⚙ Python 3 (ipykernel) ○

```
        root.mainloop()

# ===== end =====

# === Exit button code =====
def exit():
    message = messagebox.askquestion('Notepad',"Do you want to exit the application")
    if message == "yes":
        root.destroy()
    else:
        "return"
# ===== end =====

# === clear button code =====
def cleared_bill():
    # ===== Drinks =====
    lassi_qty.delete(0,'end')
    lassi.deselect()
    lassi_qty['state'] = "disabled"
    coffee_qty.delete(0,'end')
    coffee.deselect()
    coffee_qty['state'] = "disabled"
    tea_qty.delete(0,'end')
    tea.deselect()
```



```
# ===== end =====
```

```
# === clear button code =====
```

```
def cleared_bill():
```

```
    # ===== Drinks =====
```

```
    lassi_qty.delete(0,'end')
```

```
    lassi.deselect()
```

```
    lassi_qty['state'] = "disabled"
```

```
    coffee_qty.delete(0,'end')
```

```
    coffee.deselect()
```

```
    coffee_qty['state'] = "disabled"
```

```
    tea_qty.delete(0,'end')
```

```
    tea.deselect()
```

```
    tea_qty['state'] = "disabled"
```

```
    juice_qty.delete(0,'end')
```

```
    juice.deselect()
```

```
    juice_qty['state'] = "disabled"
```

```
    shakes_qty.delete(0,'end')
```

```
    shakes.deselect()
```

```
    shakes_qty['state'] = "disabled"
```

```
    milk_qty.delete(0,'end')
```

```
    milk.deselect()
```

```
    milk_qty['state'] = "disabled"
```

```
    shikanji_qty.delete(0,'end')
```

```
    shikanji.deselect()
```

```
# ===== Main Window code =====
```

```
root = tk.Tk()
root.geometry('650x400')
root.maxsize(650,390)
root.minsize(650,390)
root.title("Restaurent Management System")
```

```
frame = Frame(root,width=650,height=70,relief=RIDGE,borderwidth=5,bg='#248aa2')
frame.place(x=0,y=0)
```

```
l1 = Label(frame,text="Restaurent Management System",font=('roboto',30,'bold'),bg='#248aa2',fg="ffffff")
l1.place(x=10,y=4)
```

```
# =====
```

```
frame1= Frame(root,width=450,height=230,relief=RIDGE,borderwidth=5,bg='#248aa2')
frame1.place(x=0,y=70)
```

```
innerframe1 = Frame(frame1,width=150,height=220,relief=RIDGE,borderwidth=3,bg='#248aa2',highlightbackground="white", highlightcolor="white", highlightthickness=2)
innerframe1.place(x=0,y=0)
```

```
drinks = LabelFrame(innerframe1,text="Drinks",width=135,height=205,borderwidth=3,font=('verdana',10,'bold'),fg='#248aa2',relief=RIDGE,highlightbackground="white",highlightcolor="white",highlightthickness=2)
drinks.place(x=2,y=2)
```

```

cost_of_drinks = Label(innerframe3,text="Cost of Drinks",font=('verdana',8,'bold'))
cost_of_drinks.place(x=2,y=2)
drinks_cost = Entry(innerframe3,width=13,borderwidth=4,relief=SUNKEN)
drinks_cost.place(x=130,y=0)

cost_of_foods = Label(innerframe3,text="Cost of Foods",font=('verdana',8,'bold'))
cost_of_foods.place(x=2,y=24)
foods_cost = Entry(innerframe3,width=13,borderwidth=4,relief=SUNKEN)
foods_cost.place(x=130,y=22)

service_charge = Label(innerframe3,text="Service Charge",font=('verdana',8,'bold'))
service_charge.place(x=2,y=46)
service_charge_cost = Entry(innerframe3,width=13,borderwidth=4,relief=SUNKEN)
service_charge_cost.place(x=130,y=44)

paid_tax = Label(innerframe3,text="Paid Tax",font=('verdana',8,'bold'))
paid_tax.place(x=250,y=2)
paid_tax_cost = Entry(innerframe3,width=13,borderwidth=4,relief=SUNKEN)
paid_tax_cost.place(x=330,y=0)

sub_total = Label(innerframe3,text="Sub Total",font=('verdana',8,'bold'))
sub_total.place(x=250,y=24)
sub_total_cost = Entry(innerframe3,width=13,borderwidth=4,relief=SUNKEN)
sub_total_cost.place(x=330,y=22)

```

```

#=====
frame3= Frame(root,width=200,height=320,relief=RIDGE,borderwidth=5,bg='#248aa2')
frame3.place(x=450,y=70)

innerframe4 = Frame(frame3,width=190,height=310,relief=RIDGE,borderwidth=3,bg='#248aa2',highlightbackground="white", highlightcolor="white", highlightt
innerframe4.place(x=0,y=0)

result = Entry(innerframe4,width=28,relief=SUNKEN,borderwidth=3)
result.place(x=2,y=0)

nine = Button(innerframe4,text="9",padx=15,relief=RAISED,borderwidth=2,font=('verdana',10,'bold'),bg='#248aa2',fg="white",command=nine)
nine.place(x=0,y=24)
eight = Button(innerframe4,text="8",padx=15,relief=RAISED,borderwidth=2,font=('verdana',10,'bold'),bg='#248aa2',fg="white",command=eight)
eight.place(x=48,y=24)
seven = Button(innerframe4,text="7",padx=15,relief=RAISED,borderwidth=2,font=('verdana',10,'bold'),bg='#248aa2',fg="white",command=seven)
seven.place(x=96,y=24)
plus = Button(innerframe4,text="+",padx=6,relief=RAISED,borderwidth=2,font=('verdana',10,'bold'),bg='white',fg="black",command=plus)
plus.place(x=144,y=24)

six = Button(innerframe4,text="6",padx=15,relief=RAISED,borderwidth=2,font=('verdana',10,'bold'),bg='#248aa2',fg="white",command=six)
six.place(x=0,y=50)

```

```
save = Button(innerframe4,text="Save",relief=RAISED,borderwidth=2,font=('verdana',8,'bold'),bg='#248aa2',fg="white",command=save)
save.place(x=43,y=275)

send = Button(innerframe4,text="Send",relief=RAISED,borderwidth=2,font=('verdana',8,'bold'),bg='#248aa2',fg="white",command=Send)
send.place(x=82,y=275)

exit = Button(innerframe4,text="Exit",relief=RAISED,borderwidth=2,font=('verdana',8,'bold'),bg='#248aa2',fg="white",command=exit)
exit.place(x=124,y=275)

clr = Button(innerframe4,text="C",relief=RAISED,borderwidth=2,font=('verdana',8,'bold'),bg='#248aa2',fg="white",command=cleared_bill)
clr.place(x=160,y=275)

root.mainloop()
```

# Restaurent Management System

## Drinks

- ☐ Lassi
- ☐ Coffee
- ☐ Tea
- ☐ Juice
- ☐ Shakes
- ☐ Milk
- ☐ Shikanj
- ☐ Redbull

## Foods

- ☐ Roti
- ☐ Dal Makhni
- ☐ Mutter Panner
- ☐ Paratha
- ☐ Mix Veg
- ☐ Omelete
- ☐ Veg Biryani
- ☐ Rice

Cost of Drinks

Cost of Foods

Service Charge

Paid Tax

Sub Total

Total Cost

9	8	7	+
6	5	4	-
3	2	1	*
0	C	=	/

Total Save Send Exit C