```
from tkinter import *
import random
from db import *
class Bill_App:
    def __init__(self,root):
        self.root = root
        self.root.geometry("1920x1080+-10+0")
        self.root.title(" Billing System")

        #Variables
        self.cus_name = StringVar()
        self.c_phone = StringVar()
        #For Generating Random Bill Numbers
        x = random.randint(1000,9999)
        self.c_bill_no = StringVar()
        #Seting Value to variable
        self.c_bill_no.set(str(x))

        self.bread = IntVar()
        self.candy = IntVar()
        self.hamburger = IntVar()
        self.hotdog = IntVar()
        self.sandwich = IntVar()
        self.rice = IntVar()
        self.salt = IntVar()
        self.food_oil = IntVar()
        self.wheat = IntVar()
        self.sugar = IntVar()
        self.gatorade = IntVar()
        self.coke = IntVar()
        self.juice = IntVar()
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        self.waffer = IntVar()
        self.biscuits = IntVar()
        self.total_food = StringVar()
        self.total_grocery = StringVar()
        self.total_other = StringVar()
        self.tax_cos = StringVar()
        self.tax_groc = StringVar()
        self.tax_other = StringVar()



        bg_color = "DodgerBlue2"
        fg_color = "white"
        lbl_color = 'black'
        #Title of App
        title = Label(self.root,text = "Grocery Billing System",width = "300", bg = 'black', height = "2",
font = ("Copperplate Gothic Bold",30),fg='white').pack()

        #Customers Frame
        F1 = LabelFrame(text = "Customer Details",font=("times new
roman",15,"bold"),fg="black",bg="LightSkyBlue1",bd = 10)
        F1.place(x=0,y=480,width=450,height=320)

        #Customer Name
        cname_lbl = Label(F1,text="Customer Name:",bg="sky blue",font=("times new
romen",20,"bold")).grid(row=0,column=0,padx=20,pady=5)
        cname_en = Entry(F1,textvariable = self.cus_name,width=28,font="arial
18",bd=7,relief=SUNKEN).grid(row=1,column=0,pady=2,padx=5)

        #Customer Phone
        cphon_lbl = Label(F1,text = "Phone No:",bg="sky blue",font=("times new
romen",20,"bold")).grid(row=2,column=0,padx=20,pady=5)
        cphon_en = Entry(F1,bd = 7,textvariable = self.c_phone,width=28,font="arial
18",relief=SUNKEN).grid(row=3,column=0,pady=2,padx=5)
```

```
    def fetch_user():
        c=self.cus_name.get()
        p=self.c_phone.get()
        insert=cur.execute("INSERT INTO DETAILS_(CNAME,CPHONE)VALUES(?,?)",(c,p))
        #my_data=(c,p)
        #cur.executemany(insert,my_data) # insert data
        conn.commit()

submit=Button(F1,text="Submit",bg="red3",fg="white",command=fetch_user,width=10,font=("time
s new romen",20,"bold")).grid(row=4,column=0,padx=20,pady=5)
    #,command=fetch_user
    #Food Frame
    F2 = LabelFrame(self.root,text = 'Fruits',bd = 10,relief = GROOVE,bg = bg_color,fg = "gold",font =
("times new roman",13,"bold"))
    F2.place(x=0,y=95,width=370,height=380)

    bath_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text
= "Apple")
    bath_lbl.grid(row = 0,column = 0,padx = 10,pady = 20)
    bath_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.bread)
    bath_en.grid(row = 0,column = 1,ipady = 5,ipadx = 5)

    face_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text
= "Orange")
    face_lbl.grid(row = 1,column = 0,padx = 10,pady = 20)
    face_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.candy)
    face_en.grid(row = 1,column = 1,ipady = 5,ipadx = 5)

    wash_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky
blue",text = "Grapes")
    wash_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)
```

```
wash_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.hamburger)

wash_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)



hair_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Banana")

hair_lbl.grid(row = 3,column = 0,padx = 10,pady = 20)

hair_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.hotdog)

hair_en.grid(row = 3,column = 1,ipady = 5,ipadx = 5)



lot_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Watermelon")

lot_lbl.grid(row = 4,column = 0,padx = 10,pady = 20)

lot_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.sandwich)

lot_en.grid(row = 4,column = 1,ipady = 5,ipadx = 5)

#Grocery Frame

F2 = LabelFrame(self.root,text = 'Grocery',bd = 10,relief = GROOVE,bg = bg_color,fg = "gold",font = ("times new roman",13,"bold"))

F2.place(x=370,y=95,width=370,height=380)



rice_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Rice")

rice_lbl.grid(row = 0,column = 0,padx = 10,pady = 20)

rice_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.rice)

rice_en.grid(row = 0,column = 1,ipady = 5,ipadx = 5)



oil_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Food Oil")

oil_lbl.grid(row = 1,column = 0,padx = 10,pady = 20)

oil_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.food_oil)

oil_en.grid(row = 1,column = 1,ipady = 5,ipadx = 5)
```

```
    daal_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Salt")

    daal_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)

    daal_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.salt)

    daal_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)


    wheat_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Wheat")

    wheat_lbl.grid(row = 3,column = 0,padx = 10,pady = 20)

    wheat_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.wheat)

    wheat_en.grid(row = 3,column = 1,ipady = 5,ipadx = 5)


    sugar_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Sugar")

    sugar_lbl.grid(row = 4,column = 0,padx = 10,pady = 20)

    sugar_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.sugar)

    sugar_en.grid(row = 4,column = 1,ipady = 5,ipadx = 5)


    #Other Stuff

    F2 = LabelFrame(self.root,text = 'Others',bd = 10,relief = GROOVE,bg = bg_color,fg = "gold",font = ("times new roman",13,"bold"))

    F2.place(x=740,y=95,width=380,height=380)


    maza_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Sprite")

    maza_lbl.grid(row = 0,column = 0,padx = 10,pady = 20)

    maza_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.gatorade)

    maza_en.grid(row = 0,column = 1,ipady = 5,ipadx = 5)


    cock_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text = "Coke")

    cock_lbl.grid(row = 1,column = 0,padx = 10,pady = 20)
```

```
cock_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.coke)

cock_en.grid(row = 1,column = 1,ipady = 5,ipadx = 5)


frooti_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky
blue",text = "Juice")

frooti_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)

frooti_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.juice)

frooti_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)


cold_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text
= "Waffer")

cold_lbl.grid(row = 3,column = 0,padx = 10,pady = 20)

cold_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.waffer)

cold_en.grid(row = 3,column = 1,ipady = 5,ipadx = 5)


bis_lbl = Label(F2,width=10,font=("times new roman",18,"bold"),fg="black",bg="sky blue",text =
"Biscuits")

bis_lbl.grid(row = 4,column = 0,padx = 10,pady = 20)

bis_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.biscuits)

bis_en.grid(row = 4,column = 1,ipady = 5,ipadx = 5)


#Bill Area

F3 = Label(self.root,bd = 10,relief = GROOVE)

F3.place(x=1120,y=95,width=420,height=690)


bill_title = Label(F3,text = "Bill List",font = ("Lucida",13,"bold"),bd= 7,relief = GROOVE)

bill_title.pack(fill = X)


scroll_y = Scrollbar(F3,orient = VERTICAL)

self.txt = Text(F3,yscrollcommand = scroll_y.set)

scroll_y.pack(side = RIGHT,fill = Y)

scroll_y.config(command = self.txt.yview)
```

```
        self.txt.pack(fill = BOTH,expand = 1)


        #Buttons Frame
        F4 = LabelFrame(self.root,text = 'Bill Menu',bd = 10,relief = GROOVE,font=("times new roman",20,"bold"),fg="black",bg="LightSkyBlue1")
        F4.place(x=450,y=480,width=680,height=320)
        #Customer Bill No
        cbill_lbl = Label(F4,text = "Bill No.",bg = bg_color,fg = fg_color,font = ("times new roman",15,"bold"))
        cbill_lbl.grid(row = 0,column = 2,padx = 20)
        cbill_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.c_bill_no)
        cbill_en.grid(row = 0,column = 3)


        cosm_lbl = Label(F4,text = "Total Food",bg="sky blue",font=("times new romen",20,"bold"))
        cosm_lbl.grid(row = 0,column = 0,padx = 10,pady = 0)
        cosm_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.total_food)
        cosm_en.grid(row = 0,column = 1,ipady = 2,ipadx = 5)


        gro_lbl = Label(F4,text = "Total Grocery",bg="sky blue",font=("times new romen",20,"bold"))
        gro_lbl.grid(row = 1,column = 0,padx = 10,pady = 5)
        gro_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.total_grocery)
        gro_en.grid(row = 1,column = 1,ipady = 2,ipadx = 5)


        oth_lbl = Label(F4,text = "Others Total",bg="sky blue",font=("times new romen",20,"bold"))
        oth_lbl.grid(row = 2,column = 0,padx = 10,pady = 5)
        oth_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.total_other)
        oth_en.grid(row = 2,column = 1,ipady = 2,ipadx = 5)


        cosmt_lbl = Label(F4,text = "Food Tax",bg="sky blue",font=("times new romen",20,"bold"))
        cosmt_lbl.grid(row = 3,column = 0,padx = 30,pady = 0)
        cosmt_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.tax_cos)
        cosmt_en.grid(row = 3,column = 1,ipady = 2,ipadx = 5)
```

```
        grot_lbl = Label(F4,text = "Grocery Tax",bg="sky blue",font=("times new romen",20,"bold"))
        grot_lbl.grid(row = 0,column = 0,padx = 30,pady = 5)
        grot_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.tax_groc)
        grot_en.grid(row = 0,column = 1,ipady = 2,ipadx = 5)



        otht_lbl = Label(F4,text = "Others Tax",bg="sky blue",font=("times new romen",20,"bold"))
        otht_lbl.grid(row = 4,column = 0,padx = 10,pady = 5)
        otht_en = Entry(F4,bd = 8,relief = SUNKEN,textvariable = self.tax_other)
        otht_en.grid(row = 4,column = 1,ipady = 2,ipadx = 5)



        total_btn = Button(F4,text = "Total",command = self.total,bg="red3",fg="white",font="arial 18
bold",bd=7,relief=GROOVE)
        total_btn.grid(row = 1,column = 3,ipadx = 20,padx = 30)


        genbill_btn = Button(F3,command =
self.bill_area,text="Generate",bg="black",fg="white",font="arial 18
bold",bd=7,relief=GROOVE).pack(anchor=S)
        #genbill_btn.grid(row=5,column=2)


        clear_btn = Button(F4,text = "Clear",bg="black",fg="white",font="arial 18
bold",bd=7,relief=GROOVE,command = self.clear)
        clear_btn.grid(row = 2,column = 3,ipadx = 20,padx = 30)


        exit_btn = Button(F4,text = "Exit",bg="black",fg="white",font="arial 18 bold",bd = 7,relief =
GROOVE,command = self.exit)
        exit_btn.grid(row = 3,column = 3,ipadx = 20)


#Function to get total prices
    def total(self):
```

```
#Total Food Prices
self.total_food_prices = (
   (self.bread.get() * 10)+
   (self.candy.get() * 30)+
   (self.hamburger.get() * 80)+
   (self.hotdog.get() * 60)+
   (self.sandwich.get() * 40)
)
self.total_food.set("Rs="+str(self.total_food_prices))
self.tax_cos.set("Rs="+str(round(self.total_food_prices*0.05)))
#Total Grocery Prices
self.total_grocery_prices = (
   (self.wheat.get()*30)+
   (self.food_oil.get() * 100)+
   (self.salt.get() * 10)+
   (self.rice.get() *50)+
   (self.sugar.get() * 30)

)
self.total_grocery.set("Rs="+str(self.total_grocery_prices))
self.tax_groc.set("Rs="+str(round(self.total_grocery_prices*0.05)))
#======================Total Other Prices
self.total_other_prices = (
   (self.gatorade.get() * 60)+
   (self.juice.get() * 30)+
   (self.coke.get() * 30)+
   (self.waffer.get() * 40)+
   (self.biscuits.get() * 50)
)
self.total_other.set("Rs="+str(self.total_other_prices))
self.tax_other.set("Rs="+str(round(self.total_other_prices*0.05)))
```

```
#Function For Text Area
   def welcome_soft(self):
      self.txt.delete('1.0',END)
      self.txt.insert(END,"      Welcome To Store's Retail\n")
      self.txt.insert(END,f"\nBill No. : {str(self.c_bill_no.get())}")
      self.txt.insert(END,f"\nCustomer Name : {str(self.cus_name.get())}")
      self.txt.insert(END,f"\nPhone No. : {str(self.c_phone.get())}")
      self.txt.insert(END,"\n===========================================")
      self.txt.insert(END,"\nProduct         Qty      Price")
      self.txt.insert(END,"\n===========================================")

#Function to clear the bill area
   def clear(self):
      self.txt.delete('1.0',END)

#Add Product name , qty and price to bill area
   def bill_area(self):
      self.welcome_soft()
      i=0
      file=open("bill.txt","w")
      file.write(f"\nBill No: {str(self.c_bill_no.get())}")
      file.write(f"\nName: {str(self.cus_name.get())}")
      file.write(f"\nPhone: {str(self.c_phone.get())}")
      file.write("\n==================================")
      file.write("\nProduct         Qty        Price")
      if self.bread.get() != 0:
         file.write(f"\nApple         {str(self.bread.get())}       ${str(self.bread.get()*1)}")
         self.txt.insert(END,f"\nApple          {self.bread.get()}         {self.bread.get() * 1}")
         a=self.bread.get()
```

```
else:
    a=0
    #cur.execute("INSERT INTO ITEMS_SOLD(APPLE)VALUES(?)",b)
    #conn.commit()
if self.candy.get() != 0:
    file.write(f"\nOrange          {str(self.candy.get())}        ${str(self.candy.get()*3)}")
    self.txt.insert(END,f"\nOrange           {self.candy.get()}         {self.candy.get() * 3}")
    o=self.candy.get()
else:
    o=0
    #cur.execute("INSERT INTO ITEMS_SOLD(ORANGE)VALUES(?)",o)
    #conn.commit()
if self.hamburger.get() != 0:
    file.write(f"\nGrapes      {str(self.hamburger.get())}      ${str(self.hamburger.get()*8)}")
    self.txt.insert(END,f"\nGrapes           {self.hamburger.get()}         {self.hamburger.get() * 8}")
    h=self.hamburger.get()
else:
    h=0
    #cur.execute("INSERT INTO ITEMS_SOLD(GRAPES)VALUES(?)",h)
    #conn.commit()
if self.hotdog.get() != 0:
    file.write(f"\nBanana        {str(self.hotdog.get())}        ${str(self.hotdog.get()*6)}")
    self.txt.insert(END,f"\nBanana           {self.hotdog.get()}         {self.hotdog.get() * 6}")
    hd=self.hotdog.get()
else:
    hd=0
    #cur.execute("INSERT INTO ITEMS_SOLD(BANANA)VALUES(?)",hd)
    #conn.commit()
if self.sandwich.get() != 0 :
    file.write(f"\nWatermelon      {str(self.sandwich.get())}      ${str(self.sandwich.get()*4)}")
    self.txt.insert(END,f"\nWatermelon          {self.sandwich.get()}         {self.sandwich.get() * 4}")
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    sw=self.sandwich.get()
else:
    sw=0
    #cur.execute("INSERT INTO ITEMS_SOLD(WATERMELON)VALUES(?)",sw)
    #conn.commit()
if self.wheat.get() != 0:
    file.write(f"\nWheat        {str(self.wheat.get())}        ${str(self.wheat.get()*1)}")
    self.txt.insert(END,f"\nWheat           {self.wheat.get()}         {self.wheat.get() * 1}")
    w=self.wheat.get()
else:
    w=0
    #cur.execute("INSERT INTO ITEMS_SOLD(WHEAT)VALUES(?)",w)
    #conn.commit()
if self.food_oil.get() != 0:
    file.write(f"\nFood Oil      {str(self.food_oil.get())}      ${str(self.food_oil.get()*5)}")
    self.txt.insert(END,f"\nFood Oil        {self.food_oil.get()}         {self.food_oil.get() * 5}")
    fo=self.food_oil.get()
else:
    fo=0
    #cur.execute("INSERT INTO ITEMS_SOLD(FOOD_OIL)VALUES(?)",fo)
    #conn.commit()
if self.salt.get() != 0:
    file.write(f"\nSalt         {str(self.salt.get())}        ${str(self.salt.get()*1)}")
    self.txt.insert(END,f"\nSalt           {self.salt.get()}         {self.salt.get() * 1}")
    st=self.salt.get()
else:
    st=0
    #cur.execute("INSERT INTO ITEMS_SOLD(SALT)VALUES(?)",st)
    #conn.commit()
if self.rice.get() != 0:
    file.write(f"\nRice         {str(self.rice.get())}        ${str(self.rice.get()*3)}")
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```
    self.txt.insert(END,f"\nRice            {self.rice.get()}         {self.rice.get() * 3}")
    r=self.rice.get()
else:
    r=0
    #cur.execute("INSERT INTO ITEMS_SOLD(RICE)VALUES(?)",r)
    #conn.commit()
if self.sugar.get() != 0:
    file.write(f"\nSugar         {str(self.sugar.get())}         ${str(self.sugar.get()*2)}")
    self.txt.insert(END,f"\nSugar           {self.sugar.get()}         {self.sugar.get() * 2}")
    s=self.sugar.get()
else:
    s=0
    #cur.execute("INSERT INTO ITEMS_SOLD(SUGAR)VALUES(?)",s)
    #conn.commit()
if self.gatorade.get() != 0:
    file.write(f"\nGatorade      {str(self.gatorade.get())}      ${str(self.gatorade.get()*4)}")
    self.txt.insert(END,f"\nGatorade        {self.gatorade.get()}         {self.gatorade.get() * 4}")
    g=self.gatorade.get()
else:
    g=0
    #cur.execute("INSERT INTO ITEMS_SOLD(GATORADE)VALUES(?)",g)
    #conn.commit()
if self.juice.get() != 0:
    file.write(f"\nJuice         {str(self.juice.get())}         ${str(self.juice.get()*2)}")
    self.txt.insert(END,f"\nJuice           {self.juice.get()}         {self.juice.get() * 2}")
    j=self.juice.get()
else:
    j=0
    #cur.execute("INSERT INTO ITEMS_SOLD(JUICE)VALUES(?)",j)
    #conn.commit()
if self.coke.get() != 0:
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```
            file.write(f"\nCoke          {str(self.coke.get())}        ${str(self.coke.get()*2)}")
            self.txt.insert(END,f"\nCoke            {self.coke.get()}          {self.coke.get() * 2}")
            ck=self.coke.get()
        else:
            ck=0
            #cur.execute("INSERT INTO ITEMS_SOLD(COKE)VALUES(?)",ck)
            #conn.commit()
        if self.waffer.get() != 0:
            file.write(f"\nWaffer        {str(self.waffer.get())}        ${str(self.waffer.get()*2)}")
            self.txt.insert(END,f"\nWaffer          {self.waffer.get()}          {self.waffer.get() * 2}")
            wf=self.waffer.get()
        else:
            wf=0
            #cur.execute("INSERT INTO ITEMS_SOLD(WAFFER)VALUES(?)",w)
            #conn.commit()
        if self.biscuits.get() != 0:
            file.write(f"\nBiscuits      {str(self.biscuits.get())}      ${str(self.biscuits.get()*2)}")
            self.txt.insert(END,f"\nBiscuits         {self.biscuits.get()}          {self.biscuits.get() * 2}")
            bc=self.biscuits.get()
        else:
            bc=0
            #cur.execute("INSERT INTO ITEMS_SOLD(BISCUITS)VALUES(?)",b)
            #conn.commit()
        ph=self.c_phone.get()
        cur.execute("""INSERT INTO ITEMS_SOLD(CPHONE,APPLE ,ORANGE,GRAPES ,BANANA
,WATERMELON ,RICE,FOOD_OIL ,SALT ,WHEAT ,SUGAR ,SPRITE ,COKE ,JUICE,WAFFER ,BISCUITS
)VALUES(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)""",(ph,a,o,h,hd,sw,w,fo,st,r,s,g,j,ck,wf,bc))
        conn.commit()
        self.txt.insert(END,"\n==========================================")
        self.txt.insert(END,f"\n              Total :
Rs={self.total_food_prices+self.total_grocery_prices+self.total_other_prices+self.total_food_prices *
0.05+self.total_grocery_prices * 0.05+self.total_other_prices * 0.05}")
```

```
        file.write(f"\n==================================")
        file.write(f"\n Total :
Rs={self.total_food_prices+self.total_grocery_prices+self.total_other_prices+self.total_food_prices *
0.05+self.total_grocery_prices * 0.05+self.total_other_prices * 0.05}")



#submit=Button(F1,text="Submit",bg="red3",fg="white",command=fetch_user,width=10,font=("tim
es new romen",20,"bold")).grid(row=4,column=0,padx=20,pady=5)
        #,command=fetch_user
    def exit(self):
        self.root.destroy()
root = Tk()
object = Bill_App(root)
root.mainloop()
```