PYTHON PROGRAMMING ASSIGNMENT 5

B.TECH II YEAR I SEM

CSC (cybersecurity)

GROCERY STORE MANAGEMENT

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```python
from tkinter import *
from tkinter import messagebox
import random
root=Tk()
root.title("bill slip")
root.geometry('1280x720')
bg_color='#4D0039'


#====================variable================
c_name=StringVar()
c_phone=StringVar()
item=StringVar()
Rate=IntVar()
quantity=IntVar()
bill_no=StringVar()
x=random.randint(1000,9999)
bill_no.set(str(x))


global l
l=[]


#=====================Functions==========================

def additm():
    n=Rate.get()
    m=quantity.get()*n
    l.append(m)
    if item.get()!='':
```

```python
        textarea.insert((10.0+float(len(l)-1)), f"{item.get()}\t\t{quantity.get()}\t\t{ m}\n")

    else:

        messagebox.showerror('Error','Please enter item')


def gbill():
    if c_name.get() == "" or c_phone.get() == "":

        messagebox.showerror("Error", "Customer detail are must")

    else:

        textAreaText = textarea.get(10.0,(10.0+float(len(l))))

        welcome()

        textarea.insert(END, textAreaText)

        textarea.insert(END, f"\n====================================")

        textarea.insert(END, f"\nTotal Paybill Amount :\t\t     {sum(l)}")

        textarea.insert(END, f"\n\n====================================")

        save_bill()


def clear():
    c_name.set('')
    c_phone.set('')
    item.set('')
    Rate.set(0)
    quantity.set(0)
    welcome()
def exit():
    op = messagebox.askyesno("Exit", "Do you really want to exit?")
    if op > 0:
        root.destroy()
def save_bill():
```

```python
        op=messagebox.askyesno("Save bill","Do you want t o save the Bill?")
        if op>0:
            bill_details=textarea.get('1.0',END)
            f1=open("bills/"+str(bill_no.get())+".txt","w")
            f1.write(bill_details)
            f1.close()
            messagebox.showinfo("Saved",f"Bill no, :{bill_no.get()} Saved Successfully")
        else:
            return
def welcome():
    textarea.delete(1.0,END)
    textarea.insert(END,"\t  Welcome Shivam Retail")
    textarea.insert(END,f"\n\nBill Number:\t\t{bill_no.get()}")
    textarea.insert(END,f"\nCustomer Name:\t\t{c_name.get()}")
    textarea.insert(END,f"\nPhone Number:\t\t{c_phone.get()}")
    textarea.insert(END,f"\n\n====================================")
    textarea.insert(END,"\nProduct\t\tQTY\t\tPrice")
    textarea.insert(END,f"\n===================================\n")
    textarea.configure(font='arial 15 bold')




title=Label(root,pady=2,text="Billing Software",bd=12,bg=bg_color,fg='white',font=('times new
roman', 25 ,'bold'),relief=GROOVE,justify=CENTER)

title.pack(fill=X)


#================Product Frames================
F1=LabelFrame(root,bd=10,relief=GROOVE,text='Customer Details',font=('times new
romon',15,'bold'),fg='gold',bg=bg_color)

F1.place(x=0,y=80,relwidth=1)
```

```python
cname_lbl=Label(F1,text='Customer Name',font=('times new
romon',18,'bold'),bg=bg_color,fg='white').grid(row=0,column=0,padx=20,pady=5)

cname_txt=Entry(F1,width=15,textvariable=c_name,font='arial 15
bold',relief=SUNKEN,bd=7).grid(row=0,column=1,padx=10,pady=5)


cphone_lbl=Label(F1,text='Phone No. ',font=('times new
romon',18,'bold'),bg=bg_color,fg='white').grid(row=0,column=2,padx=20,pady=5)

cphone_txt=Entry(F1,width=15,font='arial 15
bold',textvariable=c_phone,relief=SUNKEN,bd=7).grid(row=0,column=3,padx=10,pady=5)


F2 = LabelFrame(root, text='Product Details', font=('times new romon', 18, 'bold'),
fg='gold',bg=bg_color)

F2.place(x=20, y=180,width=630,height=500)


itm= Label(F2, text='Product Name', font=('times new romon',18, 'bold'), bg=bg_color,
fg='lightgreen').grid(

row=0, column=0, padx=30, pady=20)

itm_txt = Entry(F2, width=20,textvariable=item, font='arial 15 bold', relief=SUNKEN,
bd=7).grid(row=0, column=1, padx=10,pady=20)


rate= Label(F2, text='Product Rate', font=('times new romon',18, 'bold'), bg=bg_color,
fg='lightgreen').grid(

row=1, column=0, padx=30, pady=20)

rate_txt = Entry(F2, width=20,textvariable=Rate, font='arial 15 bold', relief=SUNKEN,
bd=7).grid(row=1, column=1, padx=10,pady=20)


n= Label(F2, text='Product Quantity', font=('times new romon',18, 'bold'), bg=bg_color,
fg='lightgreen').grid(

row=2, column=0, padx=30, pady=20)

n_txt = Entry(F2, width=20,textvariable=quantity, font='arial 15 bold', relief=SUNKEN,
bd=7).grid(row=2, column=1, padx=10,pady=20)


#=====================Bill area===============

F3=Frame(root,relief=GROOVE,bd=10)

F3.place(x=700,y=180,width=500,height=500)
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bill_title=Label(F3,text='Bill Area',font='arial 15 bold',bd=7,relief=GROOVE).pack(fill=X)

scrol_y=Scrollbar(F3,orient=VERTICAL)

textarea=Text(F3,yscrollcommand=scrol_y)

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

scrol_y.config(command=textarea.yview)

textarea.pack()

welcome()

#=====================Buttons=====================

btn1=Button(F2,text='Add item',font='arial 15
bold',command=additm,padx=5,pady=10,bg='lime',width=15)

btn1.grid(row=3,column=0,padx=10,pady=30)

btn2=Button(F2,text='Generate Bill',font='arial 15
bold',command=gbill,padx=5,pady=10,bg='lime',width=15)

btn2.grid(row=3,column=1,padx=10,pady=30)

btn3=Button(F2,text='Clear',font='arial 15
bold',padx=5,pady=10,command=clear,bg='lime',width=15)

btn3.grid(row=4,column=0,padx=10,pady=30)

btn4=Button(F2,text='Exit',font='arial 15 bold',padx=5,pady=10,command=exit,bg='lime',width=15)

btn4.grid(row=4,column=1,padx=10,pady=30)


root.mainloop()
```

Billing Software

Customer Details

Customer Name `CHIKKI`   **Phone No.** `9912345678`

Product Details

Product Name `MAGGIE`

Product Rate `20`

Product Quantity `2`

Add item	Generate Bill
Clear	Exit

Bill Area

Welcome Shivam Retail

Bill Number: 7882
Customer Name: CHIKKI
Phone Number: 9912345678

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Product	QTY	Price

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SOAP   2   40
MAGGIE   2   40

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Total Paybill Amount :   80

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