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from tkinter import *
import random
import os
import sys
from tkinter import messagebox
class Bill_App:
    def __init__(self,root):
        self.root=root
        self.root.geometry("1350x700+0+0")
        self.root.configure(bg="#5B2C6F")
        self.root.title("Billing System")
        title=Label(self.root,text="Billing
System",bd=12,relief=RIDGE,font=("Arial
Black",20),bg="#A569BD",fg="white").pack(fill=X)
        #=====variables=====
        self.nutella=IntVar()
        self.noodles=IntVar()
        self.lays=IntVar()
        self.oreo=IntVar()
        self.muffin=IntVar()
        self.silk=IntVar()
        self.namkeen=IntVar()
        self.atta=IntVar()
        self.pasta=IntVar()
        self.rice=IntVar()
        self.oil=IntVar()
        self.sugar=IntVar()
        self.dal=IntVar()
        self.tea=IntVar()
        self.soap=IntVar()
        self.shampoo=IntVar()
        self.lotion=IntVar()
        self.cream=IntVar()
        self.foam=IntVar()
        self.mask=IntVar()
        self.sanitizer=IntVar()
        self.total_sna=StringVar()
        self.total_gro=StringVar()
        self.total_hyg=StringVar()
        self.a=StringVar()
        self.b=StringVar()
        self.c=StringVar()
        self.c_name=StringVar()
        self.bill_no=StringVar()
        x=random.randint(1000,9999)
        self.bill_no.set(str(x))
        self.phone=StringVar()

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#=====customer details label
frame=====
    details=LabelFrame(self.root,text="Customer Details",font=("Arial
Black",12),bg="#A569BD",fg="white",relief=GROOVE,bd=10)
    details.place(x=0,y=80,relwidth=1)
    cust_name=Label(details,text="Customer Name",font=("Arial
Black",14),bg="#A569BD",fg="white").grid(row=0,column=0,padx=15)

    cust_entry=Entry(details,borderwidth=4,width=30,textvariable=self.c_na
me).grid(row=0,column=1,padx=8)

    contact_name=Label(details,text="Contact No.",font=("Arial
Black",14),bg="#A569BD",fg="white").grid(row=0,column=2,padx=10)

    contact_entry=Entry(details,borderwidth=4,width=30,textvariable=self.p
hone).grid(row=0,column=3,padx=8)

    bill_name=Label(details,text="Bill.No.",font=("Arial
Black",14),bg="#A569BD",fg="white").grid(row=0,column=4,padx=10)

    bill_entry=Entry(details,borderwidth=4,width=30,textvariable=self.bill
_no).grid(row=0,column=5,padx=8)
#=====snacks label
frame=====
    snacks=LabelFrame(self.root,text="Snacks",font=("Arial
Black",12),bg="#E5B4F3",fg="#6C3483",relief=GROOVE,bd=10)
    snacks.place(x=5,y=180,height=380,width=325)

    item1=Label(snacks,text="Nutella Choco Spread",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=0,column=0,pady=11)
    item1_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.nute
lla).grid(row=0,column=1,padx=10)

    item2=Label(snacks,text="Noodles(1 Pack)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=1,column=0,pady=11)
    item2_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.nood
les).grid(row=1,column=1,padx=10)

    item3=Label(snacks,text="Lays(10Rs)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=2,column=0,pady=11)
    item3_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.lays
).grid(row=2,column=1,padx=10)

    item4=Label(snacks,text="Oreo(20Rs)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=3,column=0,pady=11)
    item4_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.oreo
).grid(row=3,column=1,padx=10)

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        item5=Label(snacks,text="Chocolate Muffin",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=4,column=0,pady=11)
        item5_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.muff
in).grid(row=4,column=1,padx=10)

        item6=Label(snacks,text="Dairy Milk Silk(60Rs)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=5,column=0,pady=11)
        item6_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.silk
).grid(row=5,column=1,padx=10)

        item7=Label(snacks,text="Namkeen(15Rs)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=6,column=0,pady=11)
        item7_entry=Entry(snacks,borderwidth=2,width=15,textvariable=self.namk
een).grid(row=6,column=1,padx=10)
        #=====GROCERY=====
=====
        grocery=LabelFrame(self.root,text="Grocery",font=("Arial
Black",12),relief=GR0OVE,bd=10,bg="#E5B4F3",fg="#6C3483")
        grocery.place(x=340,y=180,height=380,width=325)

        item8=Label(grocery,text="Aashirvaad Atta(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=0,column=0,pady=11)
        item8_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.att
a).grid(row=0,column=1,padx=10)

        item9=Label(grocery,text="Pasta(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=1,column=0,pady=11)
        item9_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.pas
ta).grid(row=1,column=1,padx=10)

        item10=Label(grocery,text="Basmathi Rice(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=2,column=0,pady=11)
        item10_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.ri
ce).grid(row=2,column=1,padx=10)

        item11=Label(grocery,text="Sunflower Oil(1ltr)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=3,column=0,pady=11)
        item11_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.oi
l).grid(row=3,column=1,padx=10)

        item12=Label(grocery,text="Refined Sugar(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=4,column=0,pady=11)
        item12_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.su
gar).grid(row=4,column=1,padx=10)

        item13=Label(grocery,text="Daal(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=5,column=0,pady=11)

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        item13_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.da
1).grid(row=5,column=1,padx=10)

        item14=Label(grocery,text="Tea Powder(1kg)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=6,column=0,pady=11)
        item14_entry=Entry(grocery,borderwidth=2,width=15,textvariable=self.te
a).grid(row=6,column=1,padx=10)
        #=====beauty and
hygine=====
=====
        hygine=LabelFrame(self.root,text="Beauty & Hygine",font=("Arial
Black",12),relief=GROOVE,bd=10,bg="#E5B4F3",fg="#6C3483")
        hygine.place(x=677,y=180,height=380,width=325)

        item15=Label(hygine,text="Bathing Soap",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=0,column=0,pady=11)
        item15_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self. soa
p).grid(row=0,column=1,padx=10)

        item16=Label(hygine,text="Shampoo(1ltr)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=1,column=0,pady=11)
        item16_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.sha
mpoo).grid(row=1,column=1,padx=10)

        item17=Label(hygine,text="Body Lotion(1ltr)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=2,column=0,pady=11)
        item17_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.lot
ion).grid(row=2,column=1,padx=10)

        item18=Label(hygine,text="Face Cream",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=3,column=0,pady=11)
        item18_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.cre
am).grid(row=3,column=1,padx=10)

        item19=Label(hygine,text="Shaving Foam",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=4,column=0,pady=11)
        item19_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.foa
m).grid(row=4,column=1,padx=10)

        item20=Label(hygine,text="Face Mask(1piece)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=5,column=0,pady=11)
        item20_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.mas
k).grid(row=5,column=1,padx=10)

        item21=Label(hygine,text="Hand Sanitizer(50ml)",font=("Arial
Black",11),bg="#E5B4F3",fg="#6C3483").grid(row=6,column=0,pady=11)
        item21_entry=Entry(hygine,borderwidth=2,width=15,textvariable=self.san
itizer).grid(row=6,column=1,padx=10)

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#=====billarea=====
=====
billarea=Frame(self.root,bd=10,relief=GROOVE,bg="#E5B4F3")
billarea.place(x=1010,y=188,width=330,height=372)

bill_title=Label(billarea,text="Bill Area",font=("Arial
Black",17),bd=7,relief=GROOVE,bg="#E5B4F3",fg="#6C3483").pack(fill=X)

scrol_y=Scrollbar(billarea,orient=VERTICAL)
self.txtarea=Text(billarea,yscrollcommand=scrol_y.set)
scrol_y.pack(side=RIGHT,fill=Y)
scrol_y.config(command=self.txtarea.yview)
self.txtarea.pack(fill=BOTH,expand=1)
#=====billing
menu=====
=====
billing_menu=LabelFrame(self.root,text="Billing Summery",font=("Arial
Black",12),relief=GROOVE,bd=10,bg="#A569BD",fg="white")
billing_menu.place(x=0,y=560,relwidth=1,height=137)

total_snacks=Label(billing_menu,text="Total Snacks Price",font=("Arial
Black",11),bg="#A569BD",fg="white").grid(row=0,column=0)
total_snacks_entry=Entry(billing_menu,width=30,borderwidth=2,textvaria
ble=self.total_sna).grid(row=0,column=1,padx=10,pady=7)

total_grocery=Label(billing_menu,text="Total Grocery
Price",font=("Arial Black",11),bg="#A569BD",fg="white").grid(row=1,column=0)
total_grocery_entry=Entry(billing_menu,width=30,borderwidth=2,textvari
able=self.total_gro).grid(row=1,column=1,padx=10,pady=7)

total_hygine=Label(billing_menu,text="Total Beauty & Hygine
Price",font=("Arial Black",11),bg="#A569BD",fg="white").grid(row=2,column=0)
total_hygine_entry=Entry(billing_menu,width=30,borderwidth=2,textvaria
ble=self.total_hyg).grid(row=2,column=1,padx=10,pady=7)

tax_snacks=Label(billing_menu,text="Snacks Tax",font=("Arial
Black",11),bg="#A569BD",fg="white").grid(row=0,column=2)
tax_snacks_entry=Entry(billing_menu,width=30,borderwidth=2,textvariabl
e=self.a).grid(row=0,column=3,padx=10,pady=7)

tax_grocery=Label(billing_menu,text="Grocery Tax",font=("Arial
Black",11),bg="#A569BD",fg="white").grid(row=1,column=2)
tax_grocery_entry=Entry(billing_menu,width=30,borderwidth=2,textvariab
le=self.b).grid(row=1,column=3,padx=10,pady=7)

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        tax_hygine=Label(billing_menu,text="Beauty & Hygine Tax",font=("Arial
Black",11),bg="#A569BD",fg="white").grid(row=2,column=2)
        tax_hygine_entry=Entry(billing_menu,width=30,borderwidth=2,textvariabl
e=self.c).grid(row=2,column=3,padx=10,pady=7)

        button_frame=Frame(billing_menu,bd=7,relief=GR0OVE,bg="#6C3483")
        button_frame.place(x=830,width=500,height=95)

        button_total=Button(button_frame,text="Total Bill",font=("Arial
Black",15),pady=10,bg="#E5B4F3",fg="#6C3483",command=lambda:total(self)).grid(
row=0,column=0,padx=12)
        button_clear=Button(button_frame,text="Clear Field",font=("Arial
Black",15),pady=10,bg="#E5B4F3",fg="#6C3483",command=lambda:clear(self)).grid(
row=0,column=1,padx=10,pady=6)
        button_exit=Button(button_frame,text="Exit",font=("Arial
Black",15),pady=10,bg="#E5B4F3",fg="#6C3483",width=8,command=lambda:exit1(self
)).grid(row=0,column=2,padx=10,pady=6)
        intro(self)

def total(self):
    if (self.c_name.get()==" or self.phone.get()==""):
        messagebox.showerror("Error", "Fill the complete Customer Details!!")
    self.nu=self.nutella.get()*120
    self.no=self.noodles.get()*40
    self.la=self.lays.get()*10
    self.ore=self.oreo.get()*20
    self.mu=self.muffin.get()*30
    self.si=self.silk.get()*60
    self.na=self.namkeen.get()*15
    total_snacks_price=(
        self.nu+
        self.no+
        self.la+
        self.ore+
        self.mu+
        self.si+
        self.na)
    self.total_sna.set(str(total_snacks_price)+" Rs")
    self.a.set(str(round(total_snacks_price*0.05,3))+" Rs")

    self.at=self.atta.get()*42
    self.pa=self.pasta.get()*120
    self.oi=self.oil.get()*113
    self.ri=self.rice.get()*160
    self.su=self.sugar.get()*55
    self.te=self.tea.get()*480
    self.da=self.dal.get()*76
    total_grocery_price=(

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        self.at+
        self.pa+
        self.oi+
        self.ri+
        self.su+
        self.te+
        self.da)

self.total_gro.set(str(total_grocery_price)+" Rs")
self.b.set(str(round(total_grocery_price*0.01,3))+" Rs")

self.so=self.soap.get()*30
self.sh=self.shampoo.get()*180
self.cr=self.cream.get()*130
self.lo=self.lotion.get()*500
self.fo=self.foam.get()*85
self.ma=self.mask.get()*100
self.sa=self.sanitizer.get()*20

total_hygine_price=(
    self.so+
    self.sh+
    self.cr+
    self.lo+
    self.fo+
    self.ma+
    self.sa)

self.total_hyg.set(str(total_hygine_price)+" Rs")
self.c.set(str(round(total_hygine_price*0.10,3))+" Rs")
self.total_all_bill=(total_snacks_price+
    total_grocery_price+
    total_hygine_price+
    (round(total_grocery_price*0.01,3))+
    (round(total_hygine_price*0.10,3))+
    (round(total_snacks_price*0.05,3)))
self.total_all_bil=str(self.total_all_bill)+" Rs"
billarea(self)
def intro(self):
    self.txtarea.delete(1.0,END)
    self.txtarea.insert(END,"\tWELCOME TO SUPER MARKET\n\tPhone-No.739275410")
    self.txtarea.insert(END,f"\n\nBill no. : {self.bill_no.get()}")
    self.txtarea.insert(END,f"\nCustomer Name : {self.c_name.get()}")
    self.txtarea.insert(END,f"\nPhone No. : {self.phone.get()}")
    self.txtarea.insert(END,"\n=====\\n")
    self.txtarea.insert(END,"\nProduct\t\tQty\tPrice\\n")
    self.txtarea.insert(END,"\n=====\\n")
def billarea(self):

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intro(self)
if self.nutella.get() != 0:
    self.txtarea.insert(END, f"Nutella\t\t{self.nutella.get()}\t{self.nu}\n")
if self.noodles.get() != 0:
    self.txtarea.insert(END, f"Noodles\t\t{self.noodles.get()}\t{self.no}\n")
if self.lays.get() != 0:
    self.txtarea.insert(END, f"Lays\t\t\t{self.lays.get()}\t{self.la}\n")
if self.oreo.get() != 0:
    self.txtarea.insert(END, f"Oreo\t\t\t{self.oreo.get()}\t{self.ore}\n")
if self.muffin.get() != 0:
    self.txtarea.insert(END, f"Muffins\t\t{self.muffin.get()}\t{self.mu}\n")
if self.silk.get() != 0:
    self.txtarea.insert(END, f"Silk\t\t\t{self.silk.get()}\t{self.si}\n")
if self.namkeen.get() != 0:
    self.txtarea.insert(END, f"Namkeen\t\t{self.namkeen.get()}\t{self.na}\n")
if self.atta.get() != 0:
    self.txtarea.insert(END, f"Atta\t\t\t{self.atta.get()}\t{self.at}\n")
if self.pasta.get() != 0:
    self.txtarea.insert(END, f"Pasta\t\t\t{self.pasta.get()}\t{self.pa}\n")
if self.rice.get() != 0:
    self.txtarea.insert(END, f"Rice\t\t\t{self.rice.get()}\t{self.ri}\n")
if self.oil.get() != 0:
    self.txtarea.insert(END, f"Oil\t\t\t\t{self.oil.get()}\t{self.oi}\n")
if self.sugar.get() != 0:
    self.txtarea.insert(END, f"Sugar\t\t\t{self.sugar.get()}\t{self.su}\n")
if self.dal.get() != 0:
    self.txtarea.insert(END, f"Daal\t\t\t\t{self.dal.get()}\t{self.da}\n")
if self.tea.get() != 0:
    self.txtarea.insert(END, f"Tea\t\t\t\t{self.tea.get()}\t{self.te}\n")
if self.soap.get() != 0:
    self.txtarea.insert(END, f"Soap\t\t\t\t{self.soap.get()}\t{self.so}\n")
if self.shampoo.get() != 0:
    self.txtarea.insert(END, f"Shampoo\t\t{self.shampoo.get()}\t{self.sh}\n")
if self.lotion.get() != 0:
    self.txtarea.insert(END, f"Lotion\t\t\t{self.lotion.get()}\t{self.lo}\n")
if self.cream.get() != 0:
    self.txtarea.insert(END, f"Cream\t\t\t\t{self.cream.get()}\t{self.cr}\n")
if self.foam.get() != 0:
    self.txtarea.insert(END, f"Foam\t\t\t\t{self.foam.get()}\t{self.fo}\n")
if self.mask.get() != 0:
    self.txtarea.insert(END, f"Mask\t\t\t\t{self.mask.get()}\t{self.ma}\n")
if self.sanitizer.get() != 0:

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        self.txtarea.insert(END,f"Sanitizer\t\t{self.sanitizer.get()}\t\t{self.sa}\n")

self.txtarea.insert(END,f"-----\n")
if self.a.get()!="0.0 Rs":
    self.txtarea.insert(END,f"Total Snacks Tax : {self.a.get()}\n")
if self.b.get()!="0.0 Rs":
    self.txtarea.insert(END,f"Total Grocery Tax : {self.b.get()}\n")
if self.c.get()!="0.0 Rs":
    self.txtarea.insert(END,f"Total Beauty&Hygine Tax : {self.c.get()}\n")
self.txtarea.insert(END,f"Total Bill Amount : {self.total_all_bil}\n")
self.txtarea.insert(END,f"-----\n")
def clear(self):
    self.txtarea.delete(1.0,END)
    self.nutella.set(0)
    self.noodles.set(0)
    self.lays.set(0)
    self.oreo.set(0)
    self.muffin.set(0)
    self.silk.set(0)
    self.namkeen.set(0)
    self.atta.set(0)
    self.pasta.set(0)
    self.rice.set(0)
    self.oil.set(0)
    self.sugar.set(0)
    self.dal.set(0)
    self.tea.set(0)
    self.soap.set(0)
    self.shampoo.set(0)
    self.lotion.set(0)
    self.cream.set(0)
    self.foam.set(0)
    self.mask.set(0)
    self.sanitizer.set(0)
    self.total_sna.set(0)
    self.total_gro.set(0)
    self.total_hyg.set(0)
    self.a.set(0)
    self.b.set(0)
    self.c.set(0)
    self.c_name.set(0)
    self.bill_no.set(0)
    self.bill_no.set(0)
    self.phone.set(0)
def exit1(self):
    self.root.destroy()

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```
root=Tk()
obj=Bill_App(root)
root.mainloop()
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**Billing System**

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**Customer Details**

Customer Name  Contact No.  Bill.No.

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Snacks	Grocery	Beauty & Hygiene	Bill Area
Nutella Choco Spread <input type="text"/>	Aashirvaad Atta(1kg) <input type="text"/>	Bathing Soap <input type="text"/>	<b>Bill Area</b>  WELCOME TO SUPER MARKET Phone-No.739275410  Bill no. : 8608 Customer Name : Phone No. : ===== <div> ProductQtyPrice </div> =====
Noodles(1 Pack) <input type="text"/>	Pasta(1kg) <input type="text"/>	Shampoo(1ltr) <input type="text"/>	
Lays(10Rs) <input type="text"/>	Basmati Rice(1kg) <input type="text"/>	Body Lotion(1ltr) <input type="text"/>	
Oreo(20Rs) <input type="text"/>	Sunflower Oil(1ltr) <input type="text"/>	Face Cream <input type="text"/>	
Chocolate Muffin <input type="text"/>	Refined Sugar(1kg) <input type="text"/>	Shaving Foam <input type="text"/>	
Dairy Milk Silk(60Rs) <input type="text"/>	Daal(1kg) <input type="text"/>	Face Mask(1piece) <input type="text"/>	
Namkeen(15Rs) <input type="text"/>	Tea Powder(1kg) <input type="text"/>	Hand Sanitizer(50ml) <input type="text"/>	

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**Billing Summary**

Total Snacks Price <input type="text"/>	Snacks Tax <input type="text"/>	<input type="button" value="Total Bill"/> <input type="button" value="Clear Field"/> <input type="button" value="Exit"/>
Total Grocery Price <input type="text"/>	Grocery Tax <input type="text"/>	
Total Beauty & Hygiene Price <input type="text"/>	Beauty & Hygiene Tax <input type="text"/>	

## Billing System

## Customer Details

Customer Name

arun

Contact No.

9996452387

Bill.No.

8608

## Snacks

Nutella Choco Spread

1

Noodles(1 Pack)

5

Lays(10Rs)

3

Oreo(20Rs)

2

Chocolate Muffin

0

Dairy Milk Silk(60Rs)

1

Namkeen(15Rs)

0

## Grocery

Aashirvaad Atta(1kg)

1

Pasta(1kg)

0

Basmathi Rice(1kg)

2

Sunflower Oil(1ltr)

1

Refined Sugar(1kg)

5

Daal(1kg)

0

Tea Powder(1kg)

3

## Beauty &amp; Hygiene

Bathing Soap

10

Shampoo(1ltr)

1

Body Lotion(1ltr)

1

Face Cream

1

Shaving Foam

0

Face Mask(1piece)

3

Hand Sanitizer(50ml)

4

## Bill Area

Bill no. : 8608

Customer Name : arun

Phone No. : 9996452387

Product	Qty	Price
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Nutella	1	120
Noodles	5	200
Lays	3	30
Oreo	2	40
Silk	1	60
Atta	1	42
Rice	2	320
Oil	1	113
Sugar	5	275
Tax	2	1410

## Billing Summary

Total Snacks Price

450 Rs

Snacks Tax

22.5 Rs

Total Grocery Price

2190 Rs

Grocery Tax

21.9 Rs

Total Beauty &amp; Hygiene Price

1410 Rs

Beauty &amp; Hygiene Tax

141.0 Rs

Total Bill

Clear Field

Exit

