**A PROJECT REPORT**

**On**

**Billing Software using Python**

**Submitted by**

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**Submitted to Asansol Engineering College in partial fulfilment of the**

**requirements for the degree of**

**Bachelor of Technology**

**(Information Technology)**

**Under the Guidance**

**of**

**Mr. Biplab Kumar Mondal**

(Assistant Professor)



**Information Technology**

**Asansol Engineering College**

**Asansol**

**Affiliated to**

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY**

**2024**



**CERTIFICATE**

Certified that this project report on**” Billing Software using Python”** is thebonafide work of **“Dilshad Ahmad (10800220064), Anmol Kumar Gupta (10800220041), Meghal Pandey (10800220009), Adrita Pathak (10800220080)”** who carried out the project work under my supervision.

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Finally, we would like to express our deep sense of gratitude to our parents for their constant motivation and support throughout our work.

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Dilshad Ahmad

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Anmol Kumar Gupta

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Meghal Pandey

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Adrita Pathak

**Date: \_\_ /\_\_\_/\_\_\_\_ 4th Year**

**Place: Asansol Information Technology**

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**CHAPTER 1: Project Synopsis**

A billing system can be very useful within a business environment. Instead of making bills

manually or to sum up the total manually, it is very much time consuming and also may have

somehumanerrors

like adding up the wrongtotal or adding wrong items into the bill. When making a handwritten

bill the owner and customer both have to repeatedly check the total, items added, etc. It also

sometimes results in to a Bad Impression towards the Restaurant from a Customer.Ideally, user

should be able to generate bill without any mistakes and quickly, enabling them to fasten or

improve their process. To overcome this problem,we have come up with this project, that is,

Restaurant Billing System Using Python.

A simple project based on Restaurant/Cafe Billing System which uses Python

Language with Tkinter Library for GUI. Following Python with Tkinter Library project contains

the least, but important features which can be in use for the first-year IT students for their college

projects. It has features that will allow all the users to interact in a way that the restaurant

manager interacts with their customers regarding their billing payments. This system as well as

the python application’s concept is all clear, it’s the same as real-life scenarios and well-

implemented on it

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implemented on it

The Grocery shops is enlarging rapidly and their owners are keen to improve every section of their business. Though much attention is paid to digitalizing the billing management, but not many shop owners realize the importance of applying digital billing software in their system. The customer's experience at your shop includes the billing and payment experiences too. Billing software provides some exclusive features that ease up the payment services. It upgrades the billing process and uplift the customer's experience. It enables customers to pay bills more easily. The software can generate detailed bills that eliminate the need to calculate bills separately when the guests wish to know total tax amount in different products. Apart from billing, the software enables you to organize a number of processes. It makes your system more effective and helps you provide faster and easy services to the customers. So many times, customers leave unhappy due to improper billing. When the crowd is vast in the store, it might take you some time to generate manual bills that may leave your customers unsatisfied. This is where the automated billing system can be used. It generates digital bills automatically and allows customers to make quick payments.

* Firstly, Customer’s name and phone number is taken to generate bill.
* Bill no. will be generated automatically.
* Product quantity is mentioned to calculate the total amount.
* Total button will sum up the bill and display it in the respective product section along with total tax.
* Generate bill button will generate the bill along with company name.

**CHAPTER 2: Introduction**

Billing System Using Python can be very useful within a business environment. Instead of doing manual work for making up a bill at store, which gets tiring and time consuming, you can generate a bill including tax and service charges in just few clicks. When making up a bill manually at a Restaurant may contain some human errors like adding wrong items into the bill or summing up their total also may end up wrong, it also sometimes results into a Bad Impression towards the Store from a Customer. Ideally, user should be able to generate bill without any mistakes and quickly, enabling them to fasten or improve their process. To overcome this problem, we have come up with this project, that is, Billing System Using Python.

The Billing System Using Python is very useful to small business or grocery stores. This helps the owner to fasten the process which is bug free and easy to use. It also has a calculator to case the use of the user. This project firstly has the list and then adds up the selected items by customer and sums up the total of all items adds tax and service charges and displays total. To perform any other operation like division, multiplication. etc.

Moving on, this billing system project in Python focuses mainly on dealing with customer's payment details with their respective groceries. Also, the system allows the selection of items for calculation and entering the quantities. In an overview of this app, the system user has to select a particular item, enter a certain quantity and generate the total cost. In addition, the system generates the total bill amount with tax. Besides, the system also generates a bill receipt with a reference number. Additionally, the system also contains a mini calculator where the user can perform simple mathematics for calculation too. So with it, this simple project can perform all the important tasks for calculations of the total bill amount of the customer.

Last but not least, a clean and simple GUI is presented with simple colour combinations for a greater user experience while using this billing system project in Python. For its UI elements, a standard GUI library: Tkinter is on board. Presenting a new billing system in Python project which includes a user panel that contains all the essential features to follow up, and a knowledgeable resource for learning purposes.

**CHAPTER 3: Project Details**

Billing System Project is a simple console application designed to demonstrate the practical use of python and its features as wells as to generate an application which can be used in any grocery store, shops, cafes etc. for billing to the customer. There is always a need of a system that will perform easy billing calculation in a grocery store. This system will reduce the manual operation required to maintain all the bills. And also generates bill receipt with unique bill number.

**3.1 System Requirements:**

Here we are including the software’s and hardware’s used for developing the project and implementing the project.

A. Software Requirements

1. Python 3.9 or VS Code

2. Notepad

3. Any OS

B. Hardware Requirements

1. 2 GB RAM or above

2. Intel i3 Processor or above

3. 32 Bit System or above

**3.2 Proposed System:**

Since many grocery shops make bills for their customers manually with a pen paper. This sometimes results into an error of total or wrong items added or some items missing in bill or extra items added. This may end up by building up a bad impression of customer towards the Store. So, to overcome this problem we’ve come up with this helpful project named Billing System Using Python. We all love going to cafes or restaurants but when it takes time for them to make a bill or if they Make wrong bill then it’s time consuming. So, to avoid all such chaos our project will help in All possible terms.

Here we are including the software’s and hardware’s used for developing the project and implementing

the project

A. Software Requirements

1. Python 3.9

2. Notepad

3. Any OS

B. Hardware Requirements

1. 2 GB RAM or above

2. Intel i3 Processor or above

3. 32 Bit System or above

**3.3 Definitions and Theories:**

The Bill Management System helps the Store manager to manage the store more effectively and efficiently by computerizing product ordering, billing and inventory control. There is always a need of a system that will perform easy billing calculation in a grocery store. This system will reduce the manual operation required to maintain all the bills. And also generates bill receipt with unique bill number.

PROPOSED SYSTEM

Since many restaurant or café owners make bills for their customers manually with a pen paper.

This sometimes results into an error of total or wrong items added or some items missing in bill

or extra items added. This may end up by building up a bad impression of customer towards the

Café or restaurant. So, to overcome this problem we’ve come up with this helpful project named

Restaurant Billing System Using Python. We all love going to cafes or restaurants but when it

takes time for them to make a bill or if they Make wrong bill then it’s time consuming. So, to

avoid all such chaos our project will help in All possible terms

There is always a need of a sytem that will perform easy billing calculation in a grocery store.

This system will reduce the manual opearation required to maintain all the bills.And also

generates bill receipt with unique bill number.

**3.4 Data Flow Diagram:**

Customer

Order Information

Payment Information

**Fig 1: Level Zero DFD of Billing System**

Bill

Product Purchase detail

Bill

Total bill detail

Product Purchase detail

Customer

Product Purchase detail

Total Bill

Product cost

Total cost detail

Tax

Total tax detail

**Fig 2: Level One DFD of Billing System**

**3.5 Outcomes of the project**

As we already said, businesses use billing systems to generate automated bill to their customers or partners and receive payments. Consequently, the billing system helps companies to improve performance and reduce errors by automating document preparation and other routine tasks. One of the most important benefits of billing software is that it makes your payment and calculation processing easier. Other than that, it allows you to collect details of regular customer and help you with the tax process. The software will generate bill along with the tax included in particular items.

Automated billing systems improve the overall customer experience by providing timely and accurate invoices. Customers appreciate the convenience of receiving clear, itemized bills and having multiple payment options. The software can also send automated reminders for due or overdue payments, reducing the likelihood of missed payments and improving the business's cash flow.

As businesses grow, their billing needs become more complex. Billing software is scalable and can handle increased transaction volumes without compromising performance. This scalability ensures that the billing process remains smooth and efficient, even as the business expands its customer base and service offerings.

**3.6 Work Flow of the Project**

True

**Fig 3: Flow Diagram**

True

False

True

False

False

False

True

Clear all particulars

Total button

Display the Total Price and Total tax

Price menu is displayed

exit

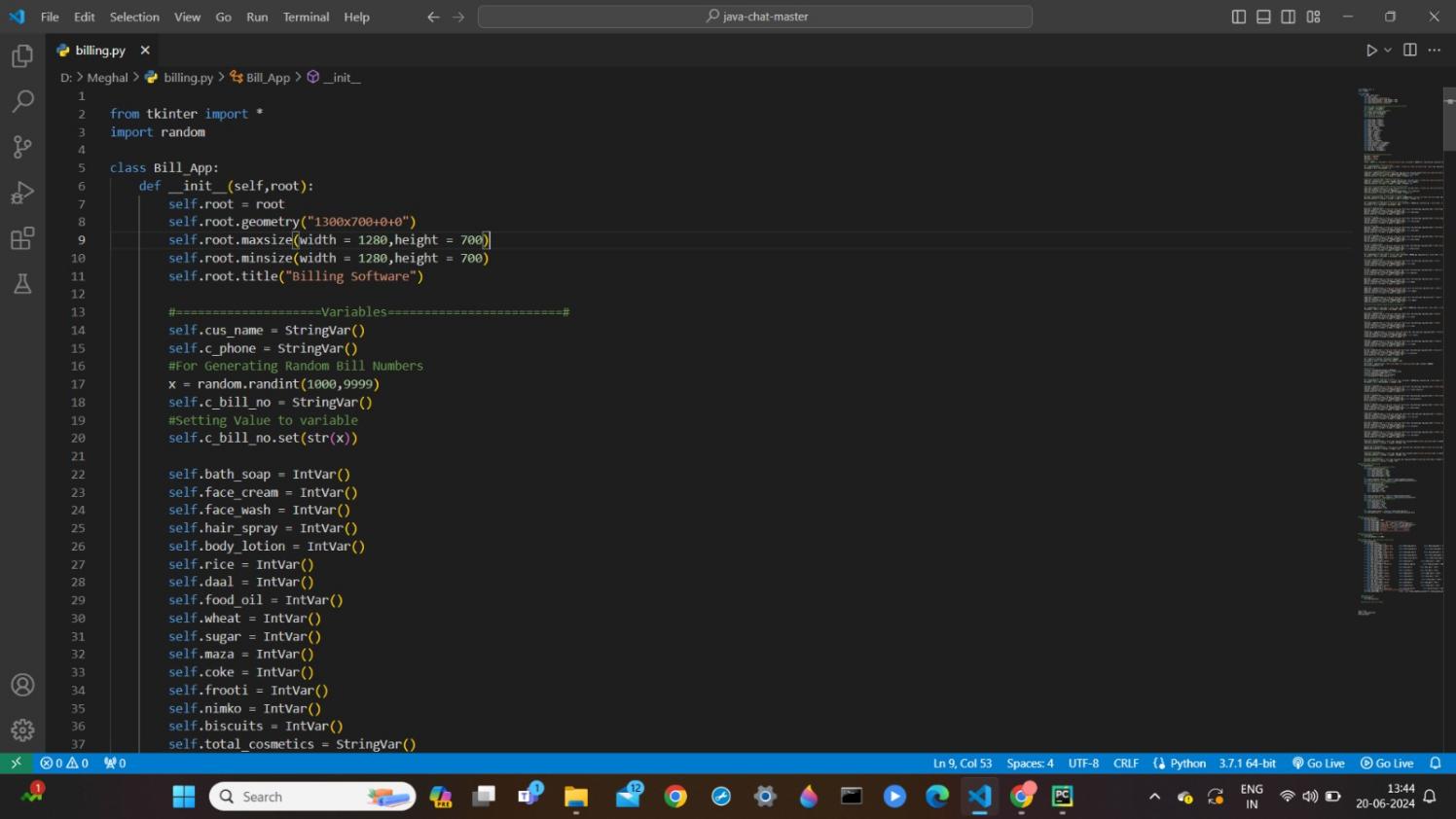
Clear

Generate bill

Enter Customer details and Quantity of particular items

z

**3.7 Application Interface**



**Fig 4: Importing Library**

from tkinter import \*

import random

class Bill\_App:

def \_init\_(self,root):

self.root = root

self.root.geometry("1300x700+0+0")

self.root.maxsize(width = 1280,height = 700)

self.root.minsize(width = 1280,height = 700)

self.root.title("Billing Software")

#====================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.bath\_soap = IntVar()

self.face\_cream = IntVar()

self.face\_wash = IntVar()

self.hair\_spray = IntVar()

self.body\_lotion = IntVar()

self.rice = IntVar()

self.daal = IntVar()

self.food\_oil = IntVar()

self.wheat = IntVar()

self.sugar = IntVar()

self.maza = IntVar()

self.coke = IntVar()

self.frooti = IntVar()

self.nimko = IntVar()

self.biscuits = IntVar()

self.total\_cosmetics = StringVar()

self.total\_grocery = StringVar()

self.total\_other = StringVar()

self.tax\_cos = StringVar()

self.tax\_groc = StringVar()

self.tax\_other = StringVar()

#===================================

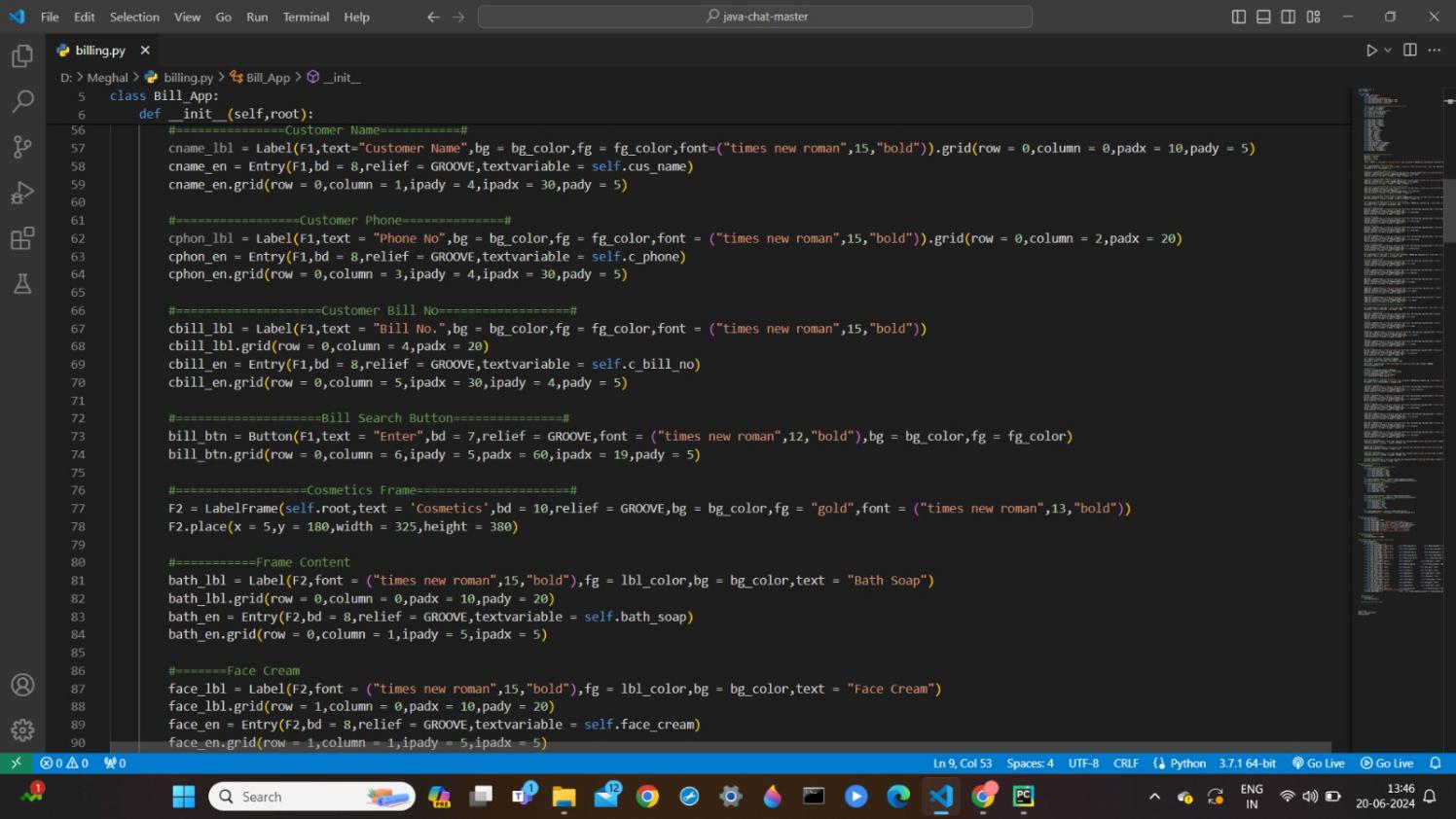
bg\_color = "#074463"

fg\_color = "white"

lbl\_color = 'white'

#Title of App

title = Label(self.root,text = "Billing Software",bd = 12,relief = GROOVE,fg = fg\_color,bg = bg\_color,font=("times new roman",30,"bold"),pady = 3).pack(fill = X)



**Fig 5: Label**

#==========Customers Frame==========#

F1 = LabelFrame(text = "Customer Details",font = ("time new roman",12,"bold"),fg = "gold",bg = bg\_color,relief = GROOVE,bd = 10)

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

#===============Customer Name===========#

cname\_lbl = Label(F1,text="Customer Name",bg = bg\_color,fg = fg\_color,font=("times new roman",15,"bold")).grid(row = 0,column = 0,padx = 10,pady = 5)

cname\_en = Entry(F1,bd = 8,relief = GROOVE,textvariable = self.cus\_name)

cname\_en.grid(row = 0,column = 1,ipady = 4,ipadx = 30,pady = 5)

#=================Customer Phone==============#

cphon\_lbl = Label(F1,text = "Phone No",bg = bg\_color,fg = fg\_color,font = ("times new roman",15,"bold")).grid(row = 0,column = 2,padx = 20)

cphon\_en = Entry(F1,bd = 8,relief = GROOVE,textvariable = self.c\_phone)

cphon\_en.grid(row = 0,column = 3,ipady = 4,ipadx = 30,pady = 5)

#====================Customer Bill No==================#

cbill\_lbl = Label(F1,text = "Bill No.",bg = bg\_color,fg = fg\_color,font = ("times new roman",15,"bold"))

cbill\_lbl.grid(row = 0,column = 4,padx = 20)

cbill\_en = Entry(F1,bd = 8,relief = GROOVE,textvariable = self.c\_bill\_no)

cbill\_en.grid(row = 0,column = 5,ipadx = 30,ipady = 4,pady = 5)

#====================Bill Search Button===============#

bill\_btn = Button(F1,text = "Enter",bd = 7,relief = GROOVE,font = ("times new roman",12,"bold"),bg = bg\_color,fg = fg\_color)

bill\_btn.grid(row = 0,column = 6,ipady = 5,padx = 60,ipadx = 19,pady = 5)

#==================Cosmetics Frame=====================#

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

F2.place(x = 5,y = 180,width = 325,height = 380)

#===========Frame Content

bath\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Bath Soap")

bath\_lbl.grid(row = 0,column = 0,padx = 10,pady = 20)

bath\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.bath\_soap)

bath\_en.grid(row = 0,column = 1,ipady = 5,ipadx = 5)

#=======Face Cream

face\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Face Cream")

face\_lbl.grid(row = 1,column = 0,padx = 10,pady = 20)

face\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.face\_cream)

face\_en.grid(row = 1,column = 1,ipady = 5,ipadx = 5)

#========Face Wash

wash\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Face Wash")

wash\_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)

wash\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.face\_wash)

wash\_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)

#========Hair Spray

hair\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Hair Spray")

hair\_lbl.grid(row = 3,column = 0,padx = 10,pady = 20)

hair\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.hair\_spray)

hair\_en.grid(row = 3,column = 1,ipady = 5,ipadx = 5)

#============Body Lotion

lot\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Body Lotion")

lot\_lbl.grid(row = 4,column = 0,padx = 10,pady = 20)

lot\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.body\_lotion)

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 = 330,y = 180,width = 325,height = 380)

#===========Frame Content

rice\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Daal")

daal\_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)

daal\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.daal)

daal\_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)

#========

wheat\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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 = 655,y = 180,width = 325,height = 380)

#===========Frame Content

maza\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Maaza")

maza\_lbl.grid(row = 0,column = 0,padx = 10,pady = 20)

maza\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.maza)

maza\_en.grid(row = 0,column = 1,ipady = 5,ipadx = 5)

#=======

cock\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Frooti")

frooti\_lbl.grid(row = 2,column = 0,padx = 10,pady = 20)

frooti\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.frooti)

frooti\_en.grid(row = 2,column = 1,ipady = 5,ipadx = 5)

#========

cold\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Nimkos")

cold\_lbl.grid(row = 3,column = 0,padx = 10,pady = 20)

cold\_en = Entry(F2,bd = 8,relief = GROOVE,textvariable = self.nimko)

cold\_en.grid(row = 3,column = 1,ipady = 5,ipadx = 5)

#============

bis\_lbl = Label(F2,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,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 Aera================#

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

F3.place(x = 960,y = 180,width = 325,height = 380)

#===========

bill\_title = Label(F3,text = "Bill Area",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,bg = bg\_color,fg = "gold",font = ("times new roman",13,"bold"))

F4.place(x = 0,y = 560,relwidth = 1,height = 145)

#===================

cosm\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Total Cosmetics")

cosm\_lbl.grid(row = 0,column = 0,padx = 10,pady = 0)

cosm\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.total\_cosmetics)

cosm\_en.grid(row = 0,column = 1,ipady = 2,ipadx = 5)

#===================

gro\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Total Grocery")

gro\_lbl.grid(row = 1,column = 0,padx = 10,pady = 5)

gro\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.total\_grocery)

gro\_en.grid(row = 1,column = 1,ipady = 2,ipadx = 5)

#================

oth\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Others Total")

oth\_lbl.grid(row = 2,column = 0,padx = 10,pady = 5)

oth\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.total\_other)

oth\_en.grid(row = 2,column = 1,ipady = 2,ipadx = 5)

#================

cosmt\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Cosmetics Tax")

cosmt\_lbl.grid(row = 0,column = 2,padx = 30,pady = 0)

cosmt\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.tax\_cos)

cosmt\_en.grid(row = 0,column = 3,ipady = 2,ipadx = 5)

#=================

grot\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Grocery Tax")

grot\_lbl.grid(row = 1,column = 2,padx = 30,pady = 5)

grot\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.tax\_groc)

grot\_en.grid(row = 1,column = 3,ipady = 2,ipadx = 5)

#==================

otht\_lbl = Label(F4,font = ("times new roman",15,"bold"),fg = lbl\_color,bg = bg\_color,text = "Others Tax")

otht\_lbl.grid(row = 2,column = 2,padx = 10,pady = 5)

otht\_en = Entry(F4,bd = 8,relief = GROOVE,textvariable = self.tax\_other)

otht\_en.grid(row = 2,column = 3,ipady = 2,ipadx = 5)

#====================

total\_btn = Button(F4,text = "Total",bg = bg\_color,fg = fg\_color,font=("lucida",12,"bold"),bd = 7,relief = GROOVE,command = self.total)

total\_btn.grid(row = 1,column = 4,ipadx = 20,padx = 30)

#========================

genbill\_btn = Button(F4,text = "Generate Bill",bg = bg\_color,fg = fg\_color,font=("lucida",12,"bold"),bd = 7,relief = GROOVE,command = self.bill\_area)

genbill\_btn.grid(row = 1,column = 5,ipadx = 20)

#====================

clear\_btn = Button(F4,text = "Clear",bg = bg\_color,fg = fg\_color,font=("lucida",12,"bold"),bd = 7,relief = GROOVE,command = self.clear)

clear\_btn.grid(row = 1,column = 6,ipadx = 20,padx = 30)

#======================

exit\_btn = Button(F4,text = "Exit",bg = bg\_color,fg = fg\_color,font=("lucida",12,"bold"),bd = 7,relief = GROOVE,command = self.exit)

exit\_btn.grid(row = 1,column = 7,ipadx = 20)

#Function to get total prices

def total(self):

#=================Total Cosmetics Prices

self.total\_cosmetics\_prices = (

(self.bath\_soap.get() \* 40)+

(self.face\_cream.get() \* 140)+

(self.face\_wash.get() \* 240)+

(self.hair\_spray.get() \* 340)+

(self.body\_lotion.get() \* 260)

)

self.total\_cosmetics.set("Rs. "+str(self.total\_cosmetics\_prices))

self.tax\_cos.set("Rs. "+str(round(self.total\_cosmetics\_prices\*0.05)))

#====================Total Grocery Prices

self.total\_grocery\_prices = (

(self.wheat.get()\*100)+

(self.food\_oil.get() \* 180)+

(self.daal.get() \* 80)+

(self.rice.get() \*80)+

(self.sugar.get() \* 170)

)

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.maza.get() \* 20)+

(self.frooti.get() \* 50)+

(self.coke.get() \* 60)+

(self.nimko.get() \* 20)+

(self.biscuits.get() \* 20)

)

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 Iconic 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===================================")

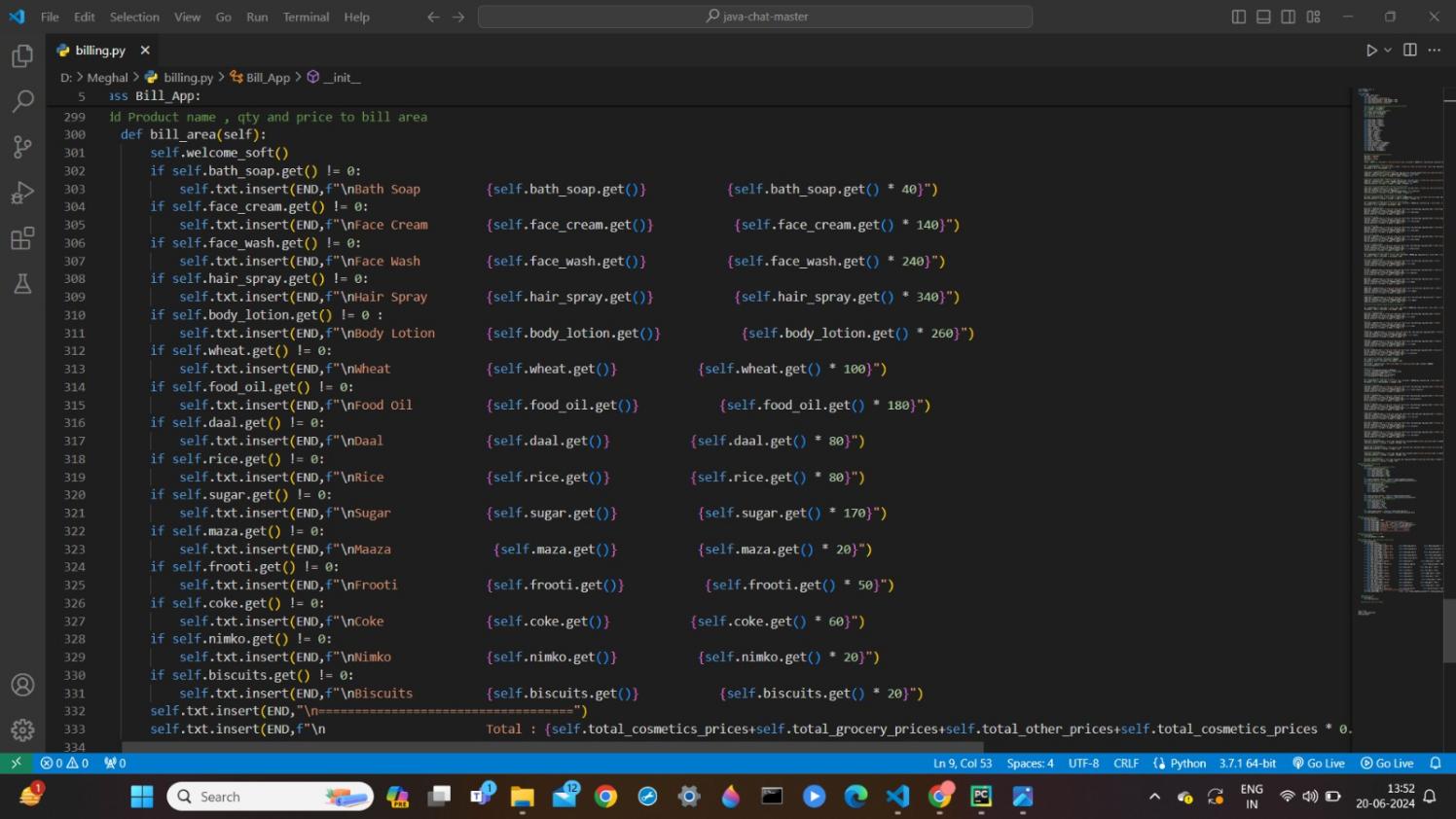
self.txt.insert(END,"\nProduct Qty Price")

self.txt.insert(END,"\n===================================")

#Function to clear the bill area

def clear(self):

self.txt.delete('1.0',END)



**Fig 6: Bill Area**

#Add Product name , qty and price to bill area

def bill\_area(self):

self.welcome\_soft()

if self.bath\_soap.get() != 0:

self.txt.insert(END,f"\nBath Soap {self.bath\_soap.get()} {self.bath\_soap.get() \* 40}")

if self.face\_cream.get() != 0:

self.txt.insert(END,f"\nFace Cream {self.face\_cream.get()} {self.face\_cream.get() \* 140}")

if self.face\_wash.get() != 0:

self.txt.insert(END,f"\nFace Wash {self.face\_wash.get()} {self.face\_wash.get() \* 240}")

if self.hair\_spray.get() != 0:

self.txt.insert(END,f"\nHair Spray {self.hair\_spray.get()} {self.hair\_spray.get() \* 340}")

if self.body\_lotion.get() != 0 :

self.txt.insert(END,f"\nBody Lotion {self.body\_lotion.get()} {self.body\_lotion.get() \* 260}")

if self.wheat.get() != 0:

self.txt.insert(END,f"\nWheat {self.wheat.get()} {self.wheat.get() \* 100}")

if self.food\_oil.get() != 0:

self.txt.insert(END,f"\nFood Oil {self.food\_oil.get()} {self.food\_oil.get() \* 180}")

if self.daal.get() != 0:

self.txt.insert(END,f"\nDaal {self.daal.get()} {self.daal.get() \* 80}")

if self.rice.get() != 0:

self.txt.insert(END,f"\nRice {self.rice.get()} {self.rice.get() \* 80}")

if self.sugar.get() != 0:

self.txt.insert(END,f"\nSugar {self.sugar.get()} {self.sugar.get() \* 170}")

if self.maza.get() != 0:

self.txt.insert(END,f"\nMaaza {self.maza.get()} {self.maza.get() \* 20}")

if self.frooti.get() != 0:

self.txt.insert(END,f"\nFrooti {self.frooti.get()} {self.frooti.get() \* 50}")

if self.coke.get() != 0:

self.txt.insert(END,f"\nCoke {self.coke.get()} {self.coke.get() \* 60}")

if self.nimko.get() != 0:

self.txt.insert(END,f"\nNimko {self.nimko.get()} {self.nimko.get() \* 20}")

if self.biscuits.get() != 0:

self.txt.insert(END,f"\nBiscuits {self.biscuits.get()} {self.biscuits.get() \* 20}")

self.txt.insert(END,"\n===================================")

self.txt.insert(END,f"\n Total : {self.total\_cosmetics\_prices+self.total\_grocery\_prices+self.total\_other\_prices+self.total\_cosmetics\_prices \* 0.05+self.total\_grocery\_prices \* 0.05+self.total\_other\_prices \* 0.05}")

#Function to exit

def exit(self):

self.root.destroy()

#Function To Clear All Fields

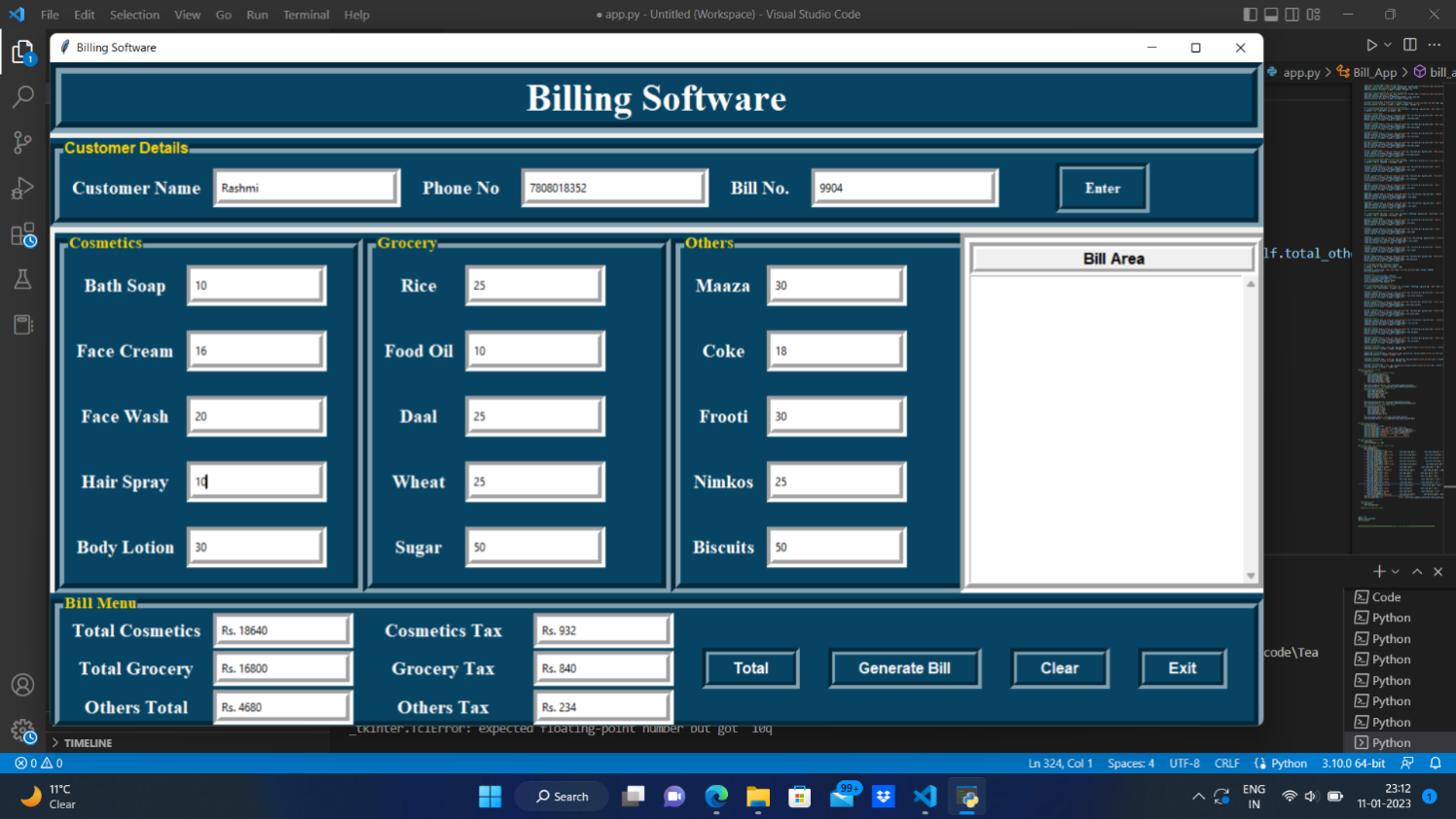
root = Tk()

object = Bill\_App(root)

root.mainloop()

**Outputs:**

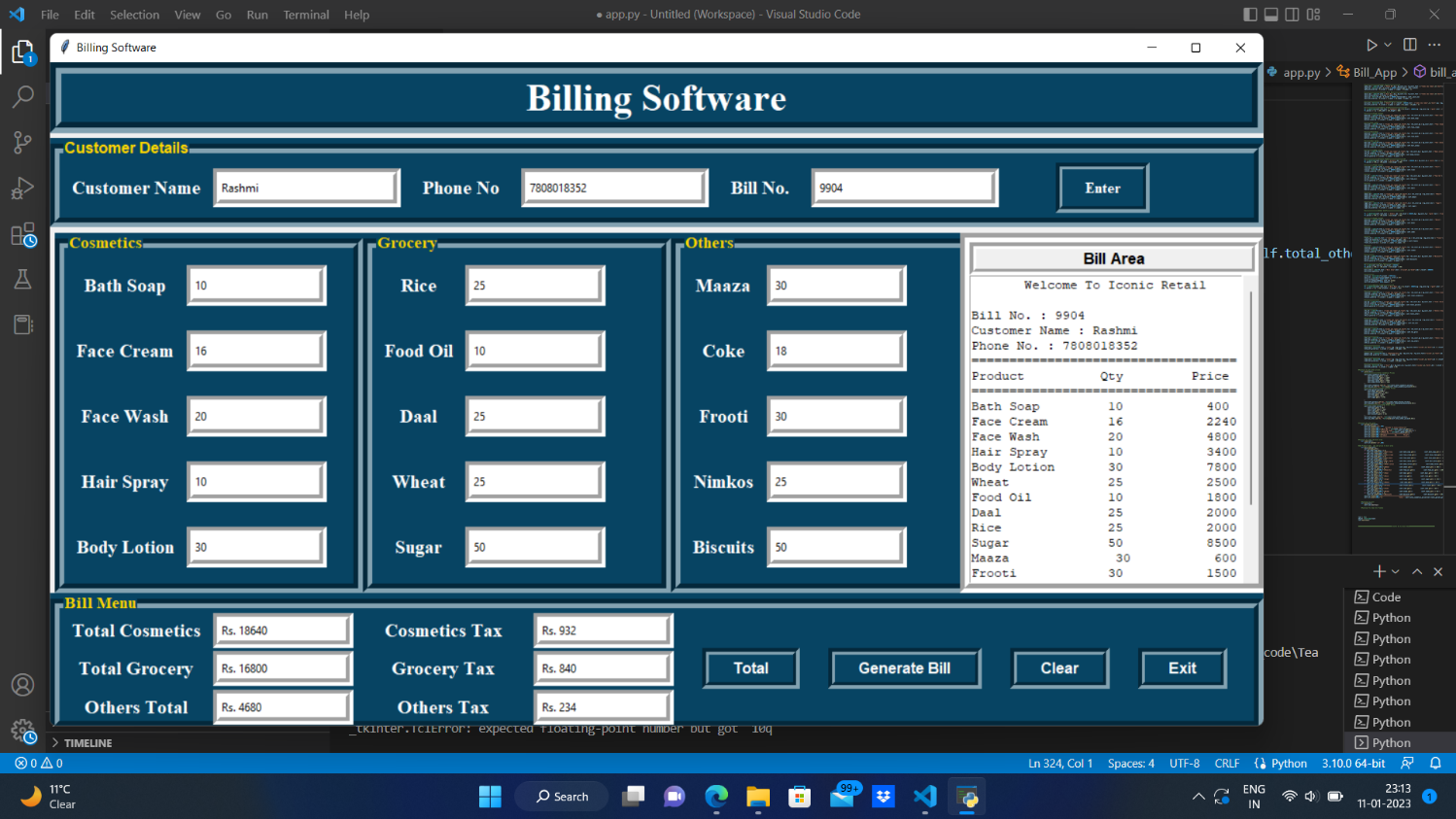
Step 1: Enter customer details, click Enter. Then enter the quantity of the products. Click Total to display bill menu.

****



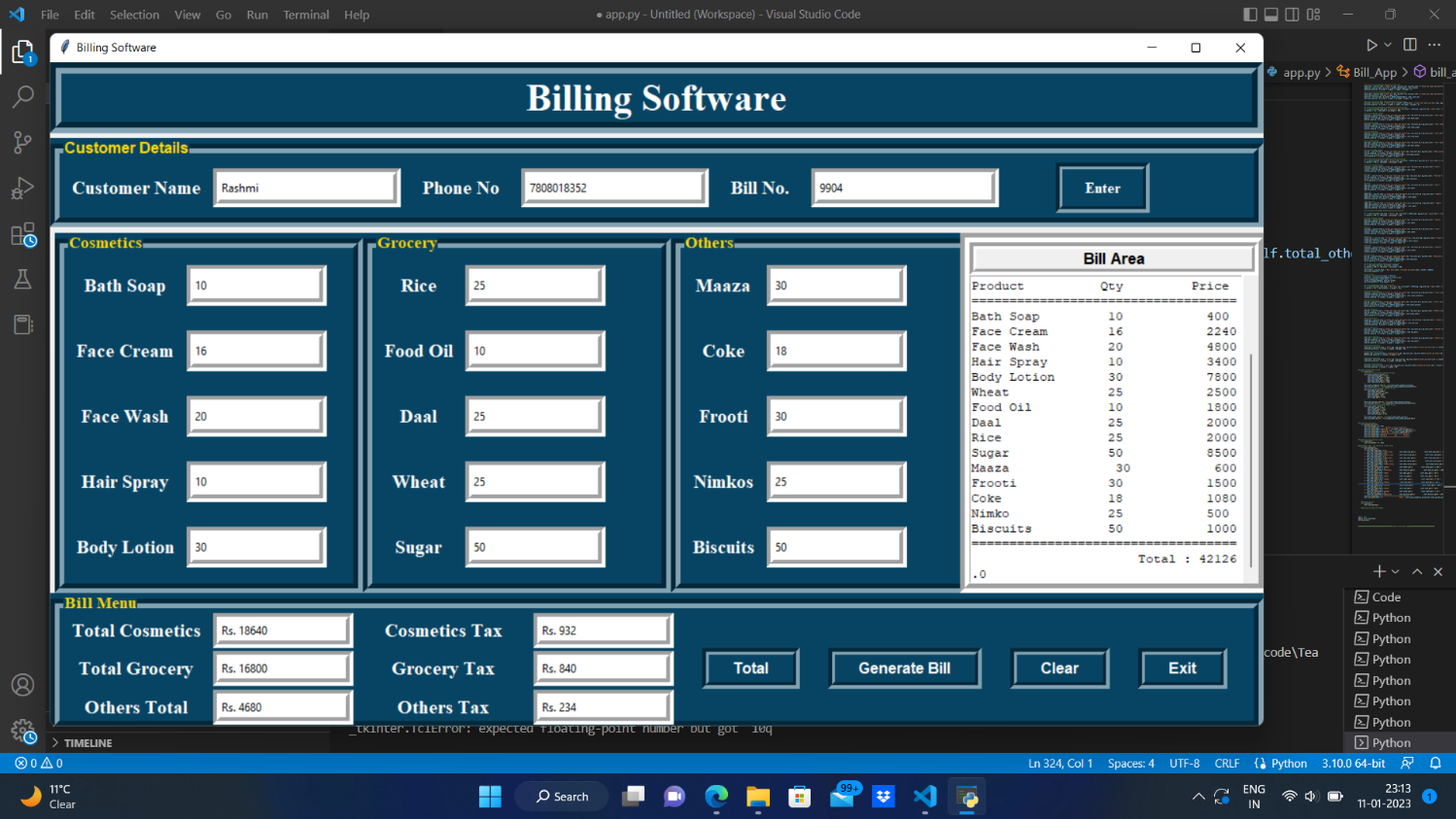
**Fig 7: Customer Detail Input**

Step 2: Click Generate bill to generate the bill with bill no. and Customer detail.

****

**Fig 8 : Generate Bill**

Step 3: Scroll down the bill.



**CHAPTER 4 : Conclusion and Future Scope**

**Fig 9 : Final and Print Bill**

**Future Scope**

In future, this application can be updated with some more items. Many other latest features will be added. Project will surely be enhanced with respect to looks and appearance and also as per user requirements. Many more functionalities will be added. Some enhancement can also be done with calculator. For now, this application generates the bill but with respect to future application it will be enhanced that it will also print a bill. It can also be used on a large scale. Many more modification can do with menu or prices or tax as well. It will be easy to use and bug free to all future or upcoming users. This can also be enhanced in future as per customer requirements. Many more features can be added. This will surely help users instead of making a bill manually.

**Conclusion**

The urge for the digital bill management systems is increasing day by day. Billing System Using Python is a perfect solution for this. Through this the ease of access and flexibility of the day to day works in the store is made simpler. The features such as bill number, CGST and SGST make this software user friendly. Both the management side and worker site can manage the data easily using such a system. It is very good and reliable system which can be in corporate to the chain of stores so can easily maintained and addressed.

**CHAPTER 5: Reference**

• **https://www.learnpython.org/**

• **https://docs.python.org/3/library/**

• **https://www.javatpoint.com/**

• [**https://www.w3schools.com/**](https://www.w3schools.com/)

• **https://www.geeksforgeeks.org**

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**• https://www.youtube.com**