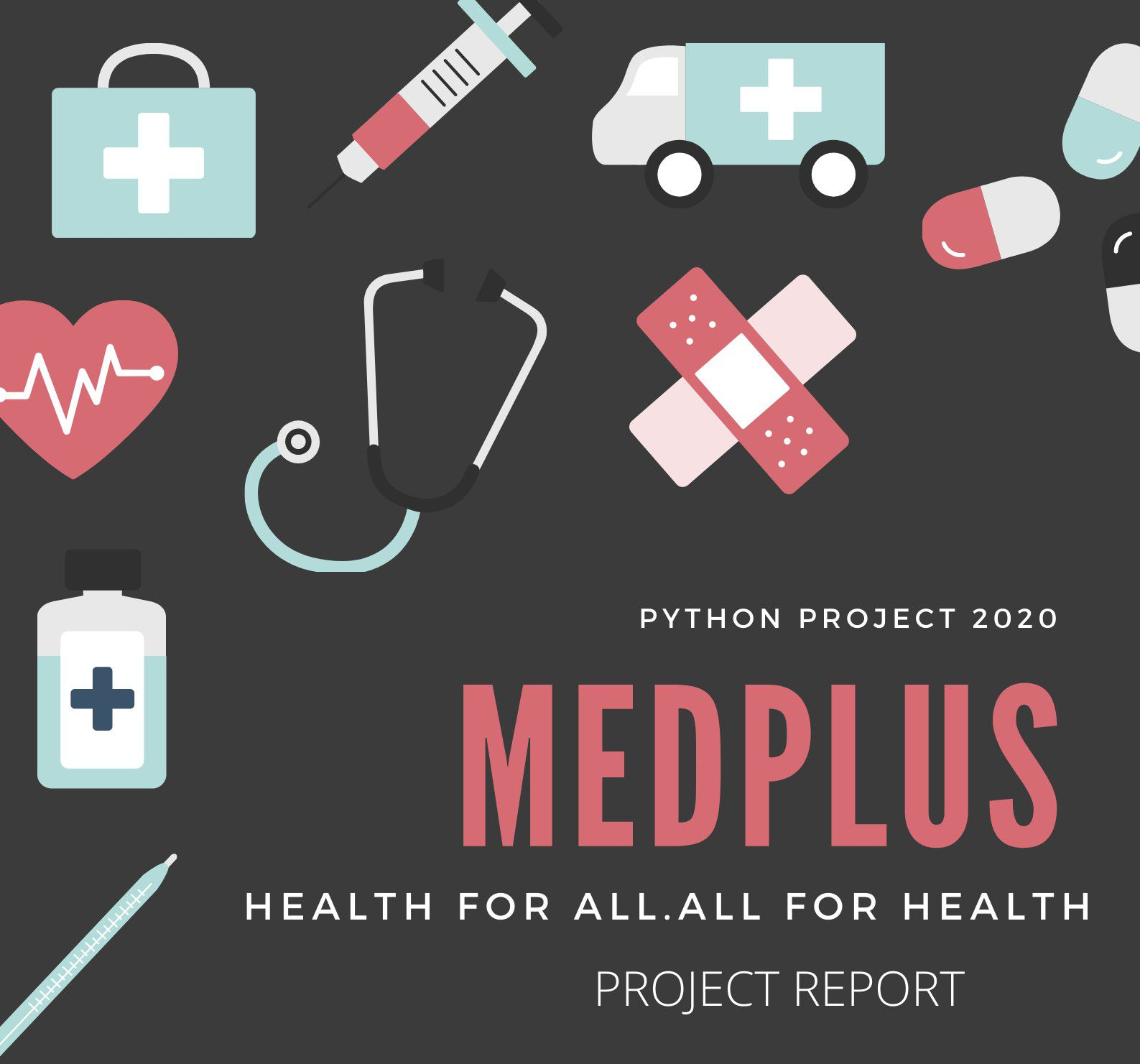

PYTHON PROJECT 2020

MEDPLUS

HEALTH FOR ALL.ALL FOR HEALTH

PROJECT REPORT

MEDPLUS

HEALTH FOR ALL.ALL FOR HEALTH

SUBMITTED BY
MATHEW V.KARIATH

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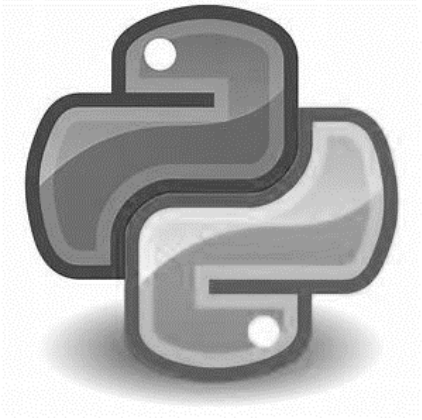


PROJECT SYNOPSIS

MEDPLUS is a **Python-based program** that can be useful to a **seller** as well as a **consumer** to handle his/her medical requirements. The project is designed in such a way that it is user_ friendly. It serves several options to both the seller as well as the customer. The data handling structure that has been used in this project is a Comma **Separated Value file (CSV**). The data of a registered seller and a customer cannot be accessed by anyone else, the account of the legitimate user has been encrypted using the **login credentials**, which are only accessible by the user.

The **consumer section** of the project has various options as follows:-

☞**Register/log in** as a customer by providing valid credentials

☞**Purchase** the medicines as prescribed by a medical practitioner

☞Provides various options for **payment** including Cash on Delivery, Online Payments, and so on.

☞Options to **print** the machine-generated Payment Invoice

☞**Hassle-free** shopping that requires the user that requires the user to make the selection of the medicines only. The program can find the nearest medical store to the user and hence create communication between the consumer as well as the retailer.

The **seller section** of the project has various options as follows:-

☞**Register/ log in** as a customer by providing valid credentials

☞View the **store details** of the seller as well as to edit them after providing valid credentials

☞Enables the user to **introspect his progress** in the sales as well as the number of orders

☞Helps to **compare his progress** with that of other sellers registered with MEDPLUS.

☞**Predict** the sales of the succeeding month with help of the calculations made by the program

Graphs are a common method to visually illustrate relationships in the data. The purpose of a graph is to present data that are too numerous or complicated to be described adequately in the text and less space

All the data generated are displayed to the user in the form of Charts that include Bar Plots, Pie Plots.

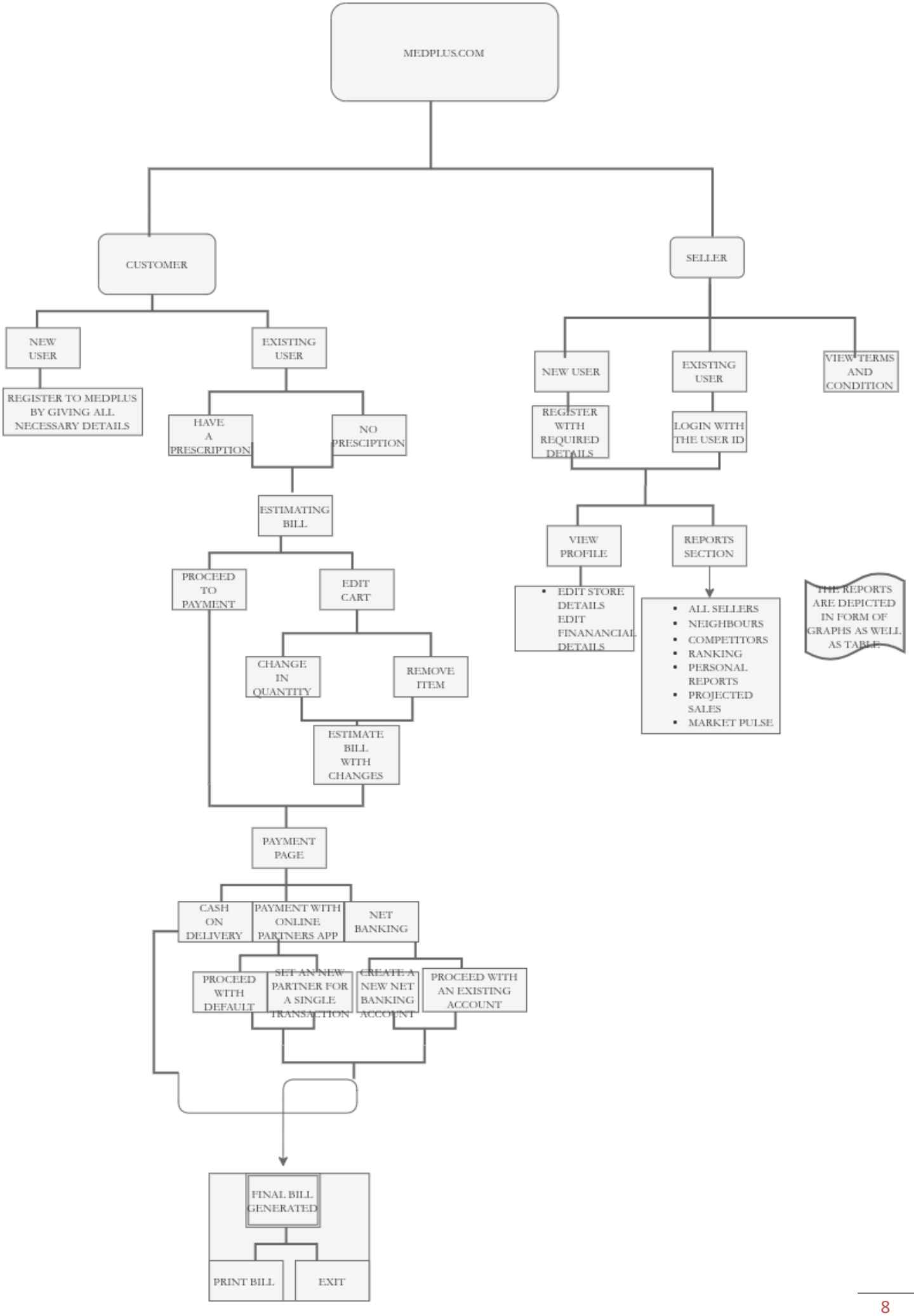
The project has been made cogent using various modules in Python including **TKinter, Pyautogui, Matplotlib, PIL.**

MODULES AND METHODS USED

SL.NO	NAME OF MODULE	METHODS IN THE MODULE	DECSRIPTION
1.	Tkinter	Tkinter.Label() Tkinter.RadioButton() Tkinter. Button() Tkinter.Window() Window.destroy()	Tkinter is actually an inbuilt Python module used to create simple GUI apps. It is the most commonly used module for GUI apps in the Python.
2.	PIL	.open() .resize()	Python Imaging Library (abbreviated as PIL) (in newer versions known as Pillow) is a free and open-source additional library for the Python programming language that adds support for opening, manipulating, and saving many different image file formats
3.	CSV	csv.writerow() csv.writerows() csv.read() csv.next()	CSV files are plain-text files, which makes them easy for the website developer to create. Because the CSV is plain-text it can be imported into any spreadsheet program or database regardless of what's being used.
4.	PyAutoGUI	.screenshot() .save()	PyAutoGUI is a cross-platform GUI automation Python module for human beings. Used to programmatically control the mouse & keyboard.
5.	DATE	date.today() date.today.month()	In Python, date and time are not a data type of its own, but a module named datetime is imported to work with the date as well as time
6.	MATPLOTLIB	.bar() .xlabel() .ylabel() .legend() .xticks() .savefig() .show()	Matplotlib is a python library used to create 2D graphs and plots by using python scripts. It has a module named pyplot which makes things easy for plotting by providing feature to control line styles, font properties, formatting axes etc.
7.	SYS	sys.exit()	Sys module in python is used to

			access variables & functions used by / related to the interpreter.
8.	OS	os.startfile()	The OS module in Python provides a way of using operating system dependent functionality. The functions that the OS module provides allows you to interface with the underlying operating system that Python is running on

FLOW DIAGRAM


MEDPLUS.COM
CUSTOMER
SELLER
NEW USER
EXISTING USER
REGISTER TO MEDPLUS BY GIVING ALL NECESSARY DETAILS
HAVE A PRESCRIPTION
NO PRESCIPTION
ESTIMATING BILL
PROCEED TO PAYMENT
EDIT CART
CHANGE IN QUANTITY
REMOVE ITEM
ESTIMATE BILL WITH CHANGES
PAYMENT PAGE
CASH ON DELIVERY
PAYMENT WITH ONLINE PARTNERS APP
NET BANKING
PROCEED WITH DEFAULT
SET AN NEW PARTNER FOR A SINGLE TRANSACTION
CREATE A NEW NET BANKING ACCOUNT
PROCEED WITH AN EXISTING ACCOUNT
FINAL BILL GENERATED
PRINT BILL
EXIT
NEW USER
EXISTING USER
VIEW TERMS AND CONDITION
REGISTER WITH REQUIRED DETAILS
LOGIN WITH THE USER ID
VIEW PROFILE
REPORTS SECTION
EDIT STORE DETAILS
EDIT FINANANCIAL DETAILS
ALL SELLERS
NEIGHBOURS
COMPETITORS
RANKING
PERSONAL REPORTS
PROJECTED SALES
MARKET PULSE
THE REPORTS ARE DEPICTED IN FORM OF GRAPHS AS WELL AS TABLE

DATA STRUCTURES

FOR A CUSTOMER

1.CUSTOMER.csv

	A	B	C	D	E	F	G	H	I
1	Username	Password	Name	Pincode of Delivei	Type of Mem	Location of Deli	Online Payment Method		
2	Amp7	3523	Amalendu P	682019	Platinum	Marady	Google Pay		
3	GeeKu28	2468	Geetha Kurian	682020	Gold	Aluva	Tez App		
4	ISJA31	3119	Issac John	674533	Gold	Angamaly	Paytm		
5	IS543	2467	Isabel George	672938	Silver	Thykoodam	Tez App		
6	JEFTR	4562	Jeffrey Thoma	653982	Platinum	Mg Road	Google Pay		
7	JoSeb77	2262	Joseph Sebasti	676437	Silver	Kalamassery	Paytm		
8	KingKevin	6231	Kevin Joseph	654265	Platinum	Kochi	Paytm		
9	LMS10	3732	Leuwin MS	682918	Silver	Aleppy	Tez App		
10	Marisa135	3721	Marisa James	674625	Silver	Calicut	Paytm		
11	MVK246	6393	Mathew V Kari	691836	Silver	Kottayam	Google Pay		
12	Rhea	2782	Rhea Jose	615342	Gold	Thiruvalla	Tez App		
13	JohnRo	3728	John Rogers	619036	Gold	Aluva	Paytm		
14	TJ7716	7622	Thomas Jackso	639572	Silver	Edappaly	Google Pay		
15	VMK3119	2726	Vinu Mathew	638154	Gold	Thripunithura	Google Pay		
16	DevKa123	24323	Dev Kariath	682019	Silver	Vytilla	Google Pay		
17	Jeff123	2343	Jeffrey Thoma	682019	Gold	Kaloor	Tez App		
18	Eljo45	4563	Ellis Joseph	682019	Gold	Kaloor	Tez App		
19	dep56	56746	Deepu John	682019	Silver	Kadavanthra	Tez App		
20	emil24	2453	Emily Kurian	682030	Gold	Kumarakom	Tez App		
21	nijo32	2453	Niya Joby	682031	Platinum	Kottayam	Tez App		
22	dclare45	245	Daisy Joby	682012	Gold	Elamkulam	Google Pay		

2.MEDSTORE.csv

	A	B	C	D	E	F	G	H	I	J	K	L
1	NAME OF	ID	LOCATION	PINCODE	NAME OF	GST NO	PREVIOUS SALE					
2	Welfer He	WH246	Kannur	670001	THOMAS	GST12312:	10000	12220	19900	123	12	123
3	Hospimed	HH146	Vyttila	682019	JOHN	GST12312:	20000	11211	1222	123	123	123
4	Clarvoint I	CB566	Alapuzha	688001	JOSEPH	GST12312:	130000	111222	122221	432	123	432
5	City Medi	CM743	Thamanna	682031	ISSAC	GST12312:	17000	233000	11122	2334	432	2334
6	Care Phar	CP453	Edappally	682021	HARIS	GST12312:	122232	22323	2211	123	2334	123
7	The Apple	TA534	Aluva	683101	SIMON	GST12312:	22331	22311	11321	223	123	2223
8	Kariath M	KM909	Kottayam	686001	DAISY	GST12312:	113131	21232	12222	221	2223	22121
9	Medlife P	MP387	Thiruvalla	689101	NIYA	GST12312:	22334	11211	11221	123	22121	123
10	MG PHARI	MM245	IDUKKI	682020	MATHEW	GST12312(	11000	11233	11223	111	123	111
11	Aster Phai	AP241	Idukki	685002	JOBY	GST12312:	13000	11123	111112	122	111	122
12	Medrely -	MC917	Calicut	670001	JOHNY	GST12312:	29000	11111	19999	11	122	11
13	Healthilfe	HM312	Thevara	682013	EMILY	GST12312:	30000	112111	11311	111	11	111
14	DC Medic	DC242	MG Road	690121	KEVIN	GST12312-	1000001	10011	22222	123	111	123
15	National M	NM124	Ernakulam	678121	SEBASTIAI	GST12312:	12000	11211	22332	1112	123	1112
16	Aarogya M	AM259	Thodupuz	694712	MATHEW	GST12312:	12000	20021	0	123	1112	123
17	LuLu Medi	LM523	Edappally	636232	ALEENA	GST12312:	10000	29991	1121	112	123	112
18	Renai Me	RM378	Palarivatt	663522	FERIN	GST12312:	9000	76622	11121	1123	112	1123
19	MTH Phar	MT762	MG Road	692389	MERIN	GST12312:	90000	77281	12221	123	1123	123
20	The Galax	GP363	Palakkad	692333	HONEY	GST12312:	100000	112311	1999	233	123	233
21	RP MEDIC	RPM23	ANGAMAI	682021	RAJAN TJ	GST11121	100011	112111	111001	12	23	1
22												

3.MEDICINES.csv

Name of M	Medicine	Qauntity i	Rate	GST(%)	Expiry Dat	TYPE
Acyclovir	ac421	190	17	18	2023/09	Alopathy
Alegra	saf476	1334	1.45	18	2021/09	Alopathy
Amifostin	sgsg25345	3541	190.87	12	2021/09	Alopathy
Amruthan	dggb335	123	21	9	2021/09	Alopathy
B Positive	xdgh156	223	134	18	2021/09	Alopathy
Busulfan	bgws4523	3567	276	12	2021/09	Ayurvedic
Captropil	xcdg422	446	13.23	9	2021/09	Ayurvedic
Clopilet 1(	ggtw36y2	2235	19.87	18	2021/09	Ayurvedic
Clopilet 5(	vdw5erg5	225	165.087	18	2020/12	Ayurvedic
Cyclopam	wet57	22512	725	18	2021/09	Ayurvedic
Dettol	seg23	2251	99.5	19	2022/11	Ayurvedic
Nicardia R	ghe4j	2511	77.87	20	2021/08	Beauty
Nutrichoi(	stg43tyh	899	76.23	9	2021/09	Beauty
Paracetan	ghe45	200	0.5	9	2023/07	Beauty
Paracip	wety43	0	0.75	12	2024/06	Health Suppliment
Prazoprez	eye5y4	25	6.98	12	2021/09	Health Suppliment
T-Bact	fg42	634	86	18	2022/04	Health Suppliment
Vicks Gel	edtty4	5676	6.09	9	2021/04	Health Suppliment
Volini	er3413h	23536	223	18	2021/09	Health Suppliment

FOR A SELLER

1.MEDSTORE.csv

	A	B	C	D	E	F	G	H	I	J	K	L
1	NAME OF	ID	LOCATION	PINCODE	NAME OF	GST NO	PREVIOUS SALE					
2	Welfer He	WH246	Kannur	670001	THOMAS	GST12312	10000	12220	19900	123	12	123
3	Hospimed	HH146	Vyttila	682019	JOHN	GST12312	20000	11211	1222	123	123	123
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21	RP MEDIC	RPM23	ANGAMA	682021	RAJAN TJ	GST11121	100011	112111	111001	12	23	1
22												

PYTHON SOURCE CODE

MAIN PROGRAM

```
#The program that the user runs in order to access“MEDPLUS”
 def mainprogram():
    master.destroy()
    import tkinter
    #Tkinter is a module in python that helps us to create a GUI
    root=tkinter.Tk()
    root.title("WELCOME")
    def ShowChoice():
       num=u.get()
       root.destroy()
       if num==0:
          import CUSTOMER
       elif num==1:
          import SELLER
       else:
          import sys;sys.exit()
    u = tkinter.IntVar()
    u.set(0)
    users = [("I AM A CUSTOMER",1),("I AM A SELLER",2)]
    tkinter.Label(root,
          text="""Choose your option""").grid(row=0)
    c1=0
    for val, user in enumerate(users):
       c1+=1
       tkinter.Radiobutton(root,
                   text=user[0],

                   variable=u,
                   value=val).grid(row=c1)
    bt=tkinter.Button(root,text="PROCEED",command=ShowChoice)
    bt.grid(columnspan=3)
import tkinter
from PIL import Image
from PIL import ImageTk
#PIL is a module in python that is used to display images
master = tkinter.Tk()
width = 400
height = 400
img1 = Image.open("MEDPLUS.png")
img1 = img1.resize((width,height), Image.ANTIALIAS)
photoImg1 =  ImageTk.PhotoImage(img1)
a=tkinter.Button(master,image=photoImg1,width=400,command=mainprogr
am).grid(row=0,column=1)
master.mainloop()
```

MODULES

1.CUSTOMER

''' The first module :"CUSTOMER" ,which is a program that allows the user to do his / her shopping from "MEDPLUS'''

```
def cartview(finalbill,finalnameretail,finaldetails):
    def Payment(finalbill,finalnameretail,finaldetails):
        #CSV File handling is used in order to store and edit data.
        import csv
        print()
        f1=open("BILL.csv","w",newline='')
        writer=csv.writer(f1)
        writer.writerow(["MEDPLUS.COM","","","","","","TAX INVOICE"])
        writer.writerow(["SOLD BY","","","","","","BILLING
LOCATION\PINCODE"])
        #To display the details in a tabular form
        print("+","-"*101,"+")
        print("|","MEDPLUS.COM"," "*77,"TAX INVOICE","|")
        print("|","SOLD BY:"," "*66,"BILLING LOCATION\PINCODE:","|")
        x=str(finalnameretail[2])
        y=str(finaldetails[2])
        for i in range(2):
            print("|",finalnameretail[i]," "*(99-len(finalnameretail[i])-
len(finaldetails[i])),finaldetails[i],"|")
            writer.writerow([str(finalnameretail[i]),"","","","","",str(finaldetails[i])])
        print("|",x," "*(99-len(x)-len(y)),y,"|")
        writer.writerow([x,"","","","","",y])
        print("+","-"*101,"+")
        print()
        print("  +","-"*98,"+")
        writer.writerow(["SL.NO","DESCRIPTION","UNIT
PRICE","TAX","QUANTITY","NET RATE","TOTAL AMOUNT"])
        print("  |","SL.NO","  |","DESCRIPTION"," "*14,"|","UNIT PRICE","
|","TAX"," "*1,"  |","QUANTITY|","NET RATE"," "*3,"|","TOTAL
AMOUNT","|")
        print("  +","-"*98,"+")
        totalbillamnt=0
        total1=0
        for i in finalbill:
            totalbillamnt+=i[6]
            total1+=i[5]
            a=str(i[0])
            b=str(i[1])
            c=str(i[2])
```

```
            d=str(i[3])
            e=str(i[4])
            f=str(i[5])[:7]
            g=str(i[6])[:7]
            writer.writerow([a,b,c,d,e,f,g])
            print("  |",i[0]," "*(5-len(a)),"|",i[1]," "*(25-len(b)),"|",i[2]," "*(10-
len(c)),"|",i[3]," "*(5-len(d)),"|",i[4]," "*(5-len(e)+1),"|",f," "*(10-len(f)+1),"|",g,"
"*(12-len(g)-1),"|")
        print("  +","-"*98,"+")
        if finaldetails[4]=="Platinum":
            disct=15
        elif finaldetails[4]=="Gold":
            disct=10
        elif finaldetails[4]=="Silver":
            disct=5
        else:
            disct=0
        print("+","-"*101,"+")
        print("|","TYPE OF MEMBERSHIP"," "*(80-
len(finaldetails[4])),finaldetails[4]," |")
        print("|","% OF DISCOUNT"," "*(85-len(str(disct))),disct," |")
        print("|","NET RATE"," "*(90-len(str(total1))),total1," |")
        print("|","TOTAL TAX AMOUNT"," "*(82-len(str((totalbillamnt-
total1))[:6])),str(totalbillamnt-total1)[:6]," |")
        print("|","TOTAL BILL AMOUNT"," "*75,str(totalbillamnt)[:6]," |")
        print("+","-"*101,"+")
        print("|","TOTAL AMOUNT PAYABLE"," "*72,str(totalbillamnt*(100-
disct)/100)[:6]," |")
        print("+","-"*101,"+")
        print("NOW IT'S TIME FOR PAYMENT!!!!")
        print("a.CASH ON DELIVERY")
        print("b.PAYMENT THROUGH OUR ONLINE PARTNER's APP")
        print("c.NET BANKING")
        writer.writerow(["MEMBERSHIP TYPE","","","","","",finaldetails[4]])
        writer.writerow(["% OF DISCOUNT","","","","","",disct])
        writer.writerow(["NET RATE","","","","","",total1])
        writer.writerow(["TOTAL TAX AMOUNT","","","","","",str(totalbillamnt-
total1)[:6]])
        writer.writerow(["TOTAL BILL
AMOUNT","","","","","",str(totalbillamnt)[:6]])
        writer.writerow(["TOTAL AMOUNT
PAYABLE","","","","","",str(totalbillamnt*(100-disct)/100)[:6]])
        ch=input("ENTER YOUR CHOICE TO PROCEED: ")
        if ch in 'Aa':
```

```
        print("THANK YOU FOR CHOOSING CASH ON DELIVERY
OPTION\nPLEASE HAND OVER THE EXACT CHANGE TO OUR
SERVICE EXCECUTIVE\nTHANK YOU")
    elif ch in 'Bb':
        def qr():
        #Enables the user to take a screenshot of the QR CODE
GENERATED
        def screenshot():
            import pyautogui, time
            time.sleep(6)
            screenshot = pyautogui.screenshot()
            screenshot.save("QRCODE.png")
            master.destroy()

          import tkinter
          from PIL import Image
          from PIL import ImageTk
          master = tkinter.Tk()
          width = 200
          height = 200
          img1 = Image.open("TEST.png")
          img1 = img1.resize((width,height), Image.ANTIALIAS)
          photoImg1 =  ImageTk.PhotoImage(img1)

a=tkinter.Button(master,image=photoImg1,width=200).grid(row=0,column=1
)
          b=tkinter.Button(master,text="TAKE
SCREENSHOT",command=screenshot).grid(row=0,column=2)
          master.mainloop()
        print("AS PER THE DETAILS GIVEN AT THE TIME OF
REGISTRATION YOU HAVE OPTED FOR",finaldetails[3])
        ch2=input("TO CONTINUE WITH THIS PLEASE PRESS THE ENTER
KEY,ELSE ENTER ANY OTHER KEY ")
        if ch2 =="":
          print("THANK YOU FOR CHOOSING",finaldetails[3])
        else:
          print("NOW YOU CAN CHOOSE OUR PREFERRED
PARTNER.THIS IS ONLY A TEMPORARY CHANGE.")
          print("1.Google Pay\n2.Tez App\n3.Paytm")
          chi=int(input("ENTER YOUR CHOICE: "))
          if chi==1:
            x="Google Pay"
            print("THANK YOU FOR CHOOSING",x)
          elif chi==2:
            x="Tez App"
            print("THANK YOU FOR CHOOSING",x)
```

```
            elif chi==3:
               x="Paytm"
               print("THANK YOU FOR CHOOSING",x)
         qr()
         print("OUR SERVICE EXCECUTIVE WILL HELP YOU TO
COMPLETE THE TRANSACTION AT THE TIME OF DELIVERY")
      elif ch in "cC":
         def otp(cost,end):
            import time
            c=1
            t1=0
            import random,math

string="0123456789qwertyuioplkjhgfdsazxcvbnmASDFGHJKLPOIUYTREW
QZXCVBNM"
            OTP=""
            length=len(string)
            for i in range(6):
                  OTP+=string[math.floor(random.random()*length)]
            y=OTP
            print("YOUR OTP FOR THE TRANSACTION OF",cost,"INR is",y,"\t
THIS SHOULD NOT BE REVEALED TO ANY ONE.THIS WILL BE VALID
FOR ONLY 3 ATTEMPTS")
            print(y)
            while c<=3:
                  to=time.perf_counter()
                  ot=input("ENTER OTP: ")
                  if ot==y:
                     t1+=time.perf_counter()-to
                     if(t1-to)>30:
                           print("SORRY YOUR SEESION HAS TIMED
OUT.PLEASE TRY AGAIN LATER.")
                           break
                     else:
                           print("SUCCESSFULLY TRANSFERRED")
                           import tkinter as tk
                           master = tk.Tk()
                           msgtext = "AN AMOUNT OF"+cost+"INR HAS BEEN
DEBITED FROM YOUR CARD ENDING IN ****"+end+"\nTHANK YOU
FOR SHOPPPING WITH MEDPLUS.COM"
                           msg = tk.Message(master, text = msgtext)
                           msg.config(font=('times', 24))
                           msg.pack()
                           tk.mainloop()
                           break
                  else:
```

```
                t1+=time.perf_counter()-to
                c+=1
                if c<4:
                    print("ATTEMPT UNSUCCESSFULL,TRY AGAIN")

        else:
            print("THREE ATTEMPTS UNSUCCESSFUL TRY AGAIN
LATER")
    #Card Details
    import csv
    with open("CARD.csv","r") as f:
        csv_reader=csv.reader(f,delimiter=",")
        next(csv_reader)
        x=list(csv_reader)
    username=input("ENTER USERNAME: ")
    for i in x:
        if i[1]=="" and i[0]==username :
            name=i[0]
            cardnumber=input("ENTER A CARD NUMBER: ")
            cvv=input("ENTER CVV OF YOUR CARD: ")
            year=input("ENTER YEAR OF EXPIR: ")
            month=input("ENTER MONTH OF EXPIRY: ")
            x.remove(i)
            x.append([name,cardnumber,cvv,year,month])
            c=cardnumber[-4:]
            otp(c)
            with open("carddetails.csv","w",newline='')as f:
                heading=["Username","CardNumber","CVV","Yaer of
Expiry","Month Of Expiry"]
                csv_writer=csv.writer(f)
                csv_writer.writerow(heading)
                csv_writer.writerows(x)
            break

        elif i[0]==username and i[1]!="":
            card=input("ENTER A CARD NUMBER: ")
            cvv=input("ENTER CVV OF YOUR CARD: ")
            year=input("ENTER YEAR OF EXPIRY: ")
            month=input("ENTER MONTH OF EXPIRY: ")
            if int(i[1])==int(card) and int(i[2])==int(cvv) and
int(i[3])==int(year) and int(i[4])==int(month):
                end=i[1][-4:]
                cost=str(totalbillamnt*(100-disct)/100)[:6]
                otp(cost,end)
                break
            else:
```

```
                print("INVALID CREDENTIALS")
        else:
            print("OOPS WE WERE UNABLE TO FIND THE CARD IN OUR
DATABASE.")
            ch=input( "TO REGISTER A NEW CARD PRESS THE ENTER KEY:
")
            if ch=="":
                name=input("ENTER YOUR NEW USERNAME:")
                cardnumber=input("ENTER YOUR CARD NUMBER: ")
                cvv=input("ENTER CVV NUMBER: ")
                year=input("ENTER YEAR OF EXPIRY: ")
                month=input("ENTER MONTH OF EXPIRY: ")
                x.remove(i)
                x.append([name,cardnumber,cvv,year,month])
                end=cardnumber[-4:]
                cost=str(totalbillamnt*(100-disct)/100)[:6]
                otp(cost,end)
                with open("CARD.csv","w",newline='')as f:
                    heading=["Username","CardNumber","CVV","Yaer of
Expiry","Month Of Expiry"]
                    csv_writer=csv.writer(f)
                    csv_writer.writerow(heading)
                    csv_writer.writerows(x)
    f1.close()
    with open ("BILL.csv","r") as f1:
        reader=csv.reader(f1,delimiter=",")
        reader=list(reader)
    def print1():
        import os
        os.startfile("BILL.csv","print")
        window.destroy()
    def exit1():
        window.destroy
    import tkinter
    import csv
    window=tkinter.Tk()
    window.title("BILL")
    for i in range (len(reader)):
        tkinter.Label(window,text=str(reader[i][0])).grid(row=i,column=1)
        tkinter.Label(window,text=str(reader[i][1])).grid(row=i,column=2)
        tkinter.Label(window,text=str(reader[i][2])).grid(row=i,column=3)
        tkinter.Label(window,text=str(reader[i][3])).grid(row=i,column=4)
        tkinter.Label(window,text=str(reader[i][4])).grid(row=i,column=5)
        tkinter.Label(window,text=str(reader[i][5])).grid(row=i,column=6)
        tkinter.Label(window,text=str(reader[i][6])).grid(row=i,column=7)
    f1.close()
```

```
        button1=tkinter.Button(window,text="EXIT",command=exit1)
        button1.grid(row=len(reader)+3,column=1)
        button2=tkinter.Button(window,text="PRINT",command=print1)
        button2.grid(row=len(reader)+3,column=4)
        print("THANK YOU FOR CHOOSING MEDPLUS.COM")
        import tkinter as tk
        master = tk.Tk()
        msgtext = "DEAR "+finaldetails[0]+" YOUR MEDICINES WILL BE
DELIVERED IN 3 DAYS BY OUR DELIVERY AGENT\nFOR AN FURTHER
ASSISTANCE PLEASE MAIL US AT\nmedpluscustomer@gmail.com"
        msg = tk.Message(master, text = msgtext)
        msg.config(font=('times', 12))
        msg.pack()
        tk.mainloop()

    print("+","-"*45,"+")
    print("|","SL.NO"," |","DESCRIPTION"," "*14, "|","QUANTITY|")
    print("+","-"*45,"+")
    for i in finalbill:
            a=str(i[0])
            b=str(i[1])
            c=str(i[4])
            print("|",a," "*(5-len(a)),"|",b," "*(25-len(b)),"|",c," "*(6-len(c)),"|")
    print("+","-"*45,"+")
    print("1.PROCEED TO PAYMENT\n2.EDIT MY CART")
    ch=input("ENTER YOUR CHOICE: ")
    if ch=="1":
       Payment(finalbill,finalnameretail,finaldetails)
    elif ch=="2":
       opt=input("PLEASE ENTER THE SERIAL NUMBER OF THE ITEM YOU
WANT TO MAKE CHANGE TO: ")
       if int(opt)<=len(finalbill):
          print("1.REMOVE THIS ITEM FROM THE LIST\n2.MAKE A
CHANGE IN THE QUANTITY")
          ch=input("ENTER YOUR CHOICE: ")
          if ch=="1":
             for i in finalbill:
                if i[0]==int(opt):
                   finalbill.remove(i)
                   for i in range(len(finalbill)):
                      finalbill[i][0]=i+1
                   print("THE ITEM HAS BEEN REMOVED FROM YOUR CART")
                   print("+","-"*45,"+")
                   print("|","SL.NO"," |","DESCRIPTION"," "*14,
"|","QUANTITY|")
                   print("+","-"*45,"+")
```

```
                for i in finalbill:
                        a=str(i[0])
                        b=str(i[1])
                        c=str(i[4])
                        print("|",a," "*(5-len(a)),"|",b," "*(25-len(b)),"|",c," "*(6-
len(c)),"|")
                print("+","-"*45,"+")
        elif ch=="2":
           for i in finalbill:
              if i[0]==int(opt):
                 newqty=int(input("PLEASE ENTER THE NEW QUANTITY: "))
                 i[5]+=(i[2]*(newqty-i[4]))
                 i[6]=i[5]*((100+i[3])/100)
                 i[4]=newqty
                 print("THE QUANTITY HAS BEEN CHANGED")
                 print("+","-"*45,"+")
                 print("|","SL.NO","  |","DESCRIPTION"," "*14,
"|","QUANTITY|")
                 print("+","-"*45,"+")
                 for i in finalbill:
                        a=str(i[0])
                        b=str(i[1])
                        c=str(i[4])
                        print("|",a," "*(5-len(a)),"|",b," "*(25-len(b)),"|",c," "*(6-
len(c)),"|")
                 print("+","-"*45,"+")
        ch1=input("TO PROCEED TO PAYMENT PRESS THE ENTER KEY: ")
        if ch1=="":
          Payment(finalbill,finalnameretail,finaldetails)
   else:
      import sys;sys.exit()


#The Function that enables the user to do the shopping
'''This Functions provides many options to do the shopping'''
def shopping(finalnameretail,finaldetails):
   print("HAI",finaldetails[0],"WELCOME TO MEDPLUS.COM")
   chentry=input("LET'S BEGIN SHOPPING!!!,TO CONTINUE SHOPPING
PRESS THE ENTER KEY:")
   if chentry=="":
      import csv
      with open("medicines.csv","r")as x:
         reader=csv.reader(x,delimiter=",")
         next(reader)
         meddet=list(reader)
      medname=[]
```

```
medrate=[]
meditax=[]
for i in meddet:
    medname.append(i[0])
    medrate.append(float(i[3]))
    meditax.append(i[4])
print("1.HAVE A PRESCRIPTION\n2.NO PRESRIPTION")
ch_1=input("ENTER YOUR CHOICE: ")
medamnt=[]
medtax=[]
billname=[]
billqty=[]
billrate=[]
if ch_1=="1":
    nos=int(input("ENTER NUMBER OF MEDICINES: "))
    for i in range(nos):
        name=input("ENTER THE NAME OF THE MEDICINE: ")
        qty=int(input("ENTER THE QUANTITY REQUIRED: "))
        c=0
        for j in medname:
            c+=1
            if name==j:
                medamnt.append(medrate[c-1])
                medtax.append(int(meditax[c-1]))
                billname.append(name)
                billqty.append(qty)
                billrate.append(medrate[c-1]*float(qty))
                break
        else:
             print("OOPS!!!NOT FOUND")
elif ch_1=="2":
    import csv
    with open("medicines.csv","r") as f:
        reader=csv.reader(f,delimiter=",")
        next(reader)
        reader=list(reader)
    group=[]
    for i in reader:
        group.append([i[0],i[6]])
    dic1={}
    l=len(group)
    for i in range(l):
        while group[i][1] not in dic1:
            temp=group[i][1]
            tup=()
            for j in group:
```

```
                if j[1]==temp:
                    tup+=(j[0],)
            dic1[temp]=tup
        grp=["A.","B.","C.","D."]
        c1=0
        for i in dic1:
            print("+","-"*27,"+")
            c=1
            print("|",grp[c1],"  |",i," "*(20-len(i)),"|")
            print("+","-"*27,"+")
            c1+=1
            for j in dic1[i]:
                print("|",c,".","|",j," "*(20-len(j)),"|")
                c+=1
            print("+","-"*27,"+")
        n=int(input("ENTER THE NUMBER OF MEDICINES YOU WOULD
LIKE TO CHOOSE: "))
        for i in range(n):
            GRP1=input("ENTER THE TYPE OF MEDICINE A/B/C/D: ")
            GRP2=int(input("ENTER THE SERIAL NUMBER OF MEDICINE:
"))
            if GRP1=="A":
                x="Alopathy"
            elif GRP1=="B":
                x="Ayurvedic"
            elif GRP1=="C":
                x="Beauty"
            else:
                x="Health Suppliment"
            name=dic1[x][(GRP2-1)]

            qty=int(input("ENTER THE QUANTITY YOU WOULD LIKE TO
PURCHASE: "))
            c=0
            for j in medname:
                    c+=1
                    if name==j:
                        medamnt.append(medrate[c-1])
                        medtax.append(int(meditax[c-1]))
                        billname.append(name)
                        billqty.append(qty)
                        billrate.append(medrate[c-1]*float(qty))
                        break
            else:
                    print("NOT FOUND")
    finalbill=[]
```

```
        for i in range(len(billname)):
            temptax=medtax[i]/100
            totalitem=billrate[i]+(billrate[i]*temptax)

tempbill=[i+1,billname[i],medamnt[i],medtax[i],billqty[i],billrate[i],totalitem]
            finalbill.append(tempbill)
        cartview(finalbill,finalnameretail,finaldetails)


    else:
        print("THANK YOU FOR VISITING MEDPLUS.COM")

def storelocator(finalname,finaldetails):
    import csv
    import math
    with open("MEDSTORE.csv","r")as x:
        y=csv.reader(x,delimiter=",")
        next(y)
        ylist=list(y)
    NAME=[]
    ID=[]
    LOCATION=[]
    PINCODE=[]
    for i in ylist:
        if len(i)>0:
            NAME.append(i[0])
            ID.append(i[1])
            LOCATION.append(i[2])
            PINCODE.append(i[3])
    with open("CUSTOMER.csv","r")as y:
        reader=csv.reader(y,delimiter=",")
        next(reader)
        x=list(reader)
    PIN=[]
    NAMED=[]
    for i in x:
        NAMED.append(i[2])
        PIN.append(i[3])
    tempdiff=[]
    for i in range (len(NAMED)):
            if  finalname!="" and finalname==NAMED[i]:
                pin=int(PIN[i])
                for j in range(len(PINCODE)):
                    x=int(math.fabs(pin-int(PINCODE[j])))
                    tempdiff.append(x)
                break
```

```
    if len(tempdiff)>0:
        minpin=min(tempdiff)
        for i in range(len(tempdiff)):
            if tempdiff[i]==minpin:
                finalnameretail=[NAME[i],LOCATION[i],PINCODE[i]]
                shopping(finalnameretail,finaldetails)
                break

    else:
        print("OOPS!!!ENTRY NOT FOUND")
    return x
def registration():
    def okay():
        import csv
        with open("CUSTOMER.csv","r")as x1:
            reader=csv.reader(x1,delimiter=",")
            result=list(reader)

templist=[y.get(),z.get(),x.get(),int(a.get()),member[u.get()][0],f.get(),payments
[v.get()][0]]
        result.append(templist)
        finalname=x.get()

finaldetails=[x.get(),f.get(),int(a.get()),payments[v.get()][0],member[u.get()][0]
]
        with open("CUSTOMER.csv","w",newline='')as x2:
            csv_records=csv.writer(x2)
            csv_records.writerows(result)
        storename=storelocator(finalname,finaldetails)
        window.destroy()
    import tkinter
    window=tkinter.Tk()
    window.title("REGISTRATION")
    tkinter.Label(window,text="ENTER NAME").grid(row=0)
    x=tkinter.Entry(window)
    x.grid(row=0,column=1)
    tkinter.Label(window,text="ENTER USERNAME").grid(row=1)
    y=tkinter.Entry(window)
    y.grid(row=1,column=1)
    tkinter.Label(window,text="ENTER PASSWORD").grid(row=2)
    z=tkinter.Entry(window,show="*")
    z.grid(row=2,column=1)
    tkinter.Label(window,text="ENTER LOCATION OF
DELIVERY").grid(row=3)
    f=tkinter.Entry(window)
    f.grid(row=3,column=1)
```

```
    tkinter.Label(window,text="ENTER PINCODE").grid(row=4)
    a=tkinter.Entry(window)
    a.grid(row=4,column=1)
    finalname=x.get()
    u = tkinter.IntVar()
    u.set(0)
    member = [("Gold",1),("Platinum",2),("Silver",3),("Not intereted now",4)]
    tkinter.Label(window, text="""CHOOSE THE TYPE OF MEMBERSHIP
YOU WANT""").grid(row=5)
    c1=0
    for val, membership in enumerate(member):
        c1+=1
        tkinter.Radiobutton(window,
                    text=membership[0],

                    variable=u,
                    value=val).grid(row=5,column=c1)
    v = tkinter.IntVar()
    v.set(0)
    payments = [("Paytm",1),("Tez App",2),("Google Pay",3)]
    def ShowChoice():
        x=v.get()
        print(payments[x][0])

    tkinter.Label(window,
          text="""CHOOSE ANY ONE AF OUR ONLINE PAYMENT
PARTNER""").grid(row=6)
    c=0
    for val, payment in enumerate(payments):
        c+=1
        tkinter.Radiobutton(window,
                    text=payment[0],

                    variable=v,
                    value=val).grid(row=6,column=c)
    bt=tkinter.Button(window,text="SUBMIT",command=okay)
    bt.grid(columnspan=8)

    window.mainloop()




def nameerror():
        import tkinter
```

```
        error=tkinter.Tk()
        error.title("ERROR")
        tkinter.Message(error,text="INVALID CREDENTIALS\nPLEASE TRY
AGAIN LATER!!!").grid(row=0)

def password():
    import csv
    with open("CUSTOMER.csv","r")as x3:
        reader=csv.reader(x3,delimiter=",")
        next(reader)
        s=list(reader)
    user=[]
    password=[]
    name=[]
    location=[]
    mempincode=[]
    Type=[]
    onlinepay=[]
    for i in s:
        user.append(i[0])
        password.append(int(i[1]))
        name.append(i[2])
        mempincode.append(i[3])
        Type.append(i[4])
        location.append(i[5])
        onlinepay.append(i[6])

    def check():
            username=x.get()
            passcode=int(y.get())
            window.destroy()
            for i in range(0,len(user),1):
                if user[i]==username and password[i]==passcode:
                    finalname=name[i]
                    finalloaction=location[i]
                    fianlpin=mempincode[i]
                    finalonlinepay=onlinepay[i]
                    finaltype=Type[i]

finaldetails=[finalname,finalloaction,fianlpin,finalonlinepay,finaltype]
                    finalname=name[i]
                    storename=storelocator(finalname,finaldetails)
                    break
            else:
                finalname=""
                nameerror()
```

#The opening window that enables the user to Register if it is a new user and Login if it is an existing user

```
import tkinter
window=tkinter.Tk()
window.title("SIGNIN")
tkinter.Label(window,text="ENTER USERNAME").grid(row=0)
x=tkinter.Entry(window)
x.grid(row=0,column=1)
tkinter.Label(window,text="ENTER PASSWORD").grid(row=1)
y=tkinter.Entry(window,show="*")
y.grid(row=1,column=1)
tkinter.Checkbutton(window,text="Keep Me Logged
In").grid(columnspan=2)
bt=tkinter.Button(window,text="SUBMIT",command=check)
bt.grid(columnspan=3)
window.mainloop()
def ShowChoice():
num=u.get()
root.destroy()
if num==0:
   password()
else:
   registration()
import tkinter
root=tkinter.Tk()
root.title("WELCOME")
u = tkinter.IntVar()
u.set(0)
users = [("EXISTING USER",1),("NEW USER",2)]
tkinter.Label(root,
      text="""Choose your option""").grid(row=0)
c1=0
for val, user in enumerate(users):
c1+=1
tkinter.Radiobutton(root,
            text=user[0],

            variable=u,
            value=val).grid(row=c1)
bt=tkinter.Button(root,text="PROCEED",command=ShowChoice)
bt.grid(columnspan=3)
```

2.SELLER

#The module "SELLER" that enables a seller to view his store details and the market trends as well as his/ her progress
#The python module called PIL that enables us to open images from the system.

```
def image():
   import tkinter
   from PIL import Image
   from PIL import ImageTk
   master = tkinter.Tk()
   width = 400
   height = 400
   img1 = Image.open("ALLSELLERS.png")
   img2 = Image.open("COMPETITIONS.png")
   img3 = Image.open("PIEPERSONAL.png")
   img4 = Image.open("GROWTHPERSONAL.png")
   img5 = Image.open("MARKETPULSE.png")
   img6 = Image.open("NEIGHBOURS.png")
   img1 = img1.resize((width,height), Image.ANTIALIAS)
   img2 = img2.resize((width,height), Image.ANTIALIAS)
   img3 = img3.resize((width,height), Image.ANTIALIAS)
   img4 = img4.resize((width,height), Image.ANTIALIAS)
   img5 = img5.resize((width,height), Image.ANTIALIAS)
   img6 = img6.resize((width,height), Image.ANTIALIAS)
   photoImg1 =  ImageTk.PhotoImage(img1)
   photoImg2 =  ImageTk.PhotoImage(img2)
   photoImg3 =  ImageTk.PhotoImage(img3)
   photoImg4 =  ImageTk.PhotoImage(img4)
   photoImg5 =  ImageTk.PhotoImage(img5)
   photoImg6 =  ImageTk.PhotoImage(img6)
   a=
tkinter.Button(master,image=photoImg1,width=400).grid(row=0,column=1)

b=tkinter.Button(master,image=photoImg2,width=400).grid(row=0,column=2
)

c=tkinter.Button(master,image=photoImg3,width=400).grid(row=0,column=3
)

d=tkinter.Button(master,image=photoImg4,width=400).grid(row=1,column=1
)

e=tkinter.Button(master,image=photoImg5,width=400).grid(row=1,column=2
)
```

```
f=tkinter.Button(master,image=photoImg6,width=400).grid(row=1,column=3)
   master.mainloop()
   print("THANK YOU FOR CHOOSING MEDPLUS.COM")
   import tkinter as tk
   master = tk.Tk()
   msgtext = "DEAR SELLER THANK YOU FOR CHOOSING
MEDPLUS\nFOR AN FURTHER ASSISTANCE PLEASE MAIL US
AT\nmedplusseller@gmail.com"
   msg = tk.Message(master, text = msgtext)
   msg.config(font=('times', 12))
   msg.pack()
   tk.mainloop()
```

#The user defined function that enables the seller to view his/her store details and edit them after providing the valid credentials

```
def reportseller(user):
   #The function that enables the user to view the market pulse.
   def marketpulse():
      orders=[]
      sales=[]
      import csv
      with open("MEDSTORE.csv","r") as f:
         csv_reader=csv.reader(f,delimiter=",")
         next(csv_reader)
         x=list(csv_reader)
      #Datetime is an inbuilt python function that retrieves the date from the
system
      import math
      from datetime import date
      today=date.today()
      p=today.month

listmonth=[("JANUARY",1),("FEBRUARY",2),("MARCH",3),("APRIL",4),("MA
Y",5),("JUNE",6),("JULY",7),("AUGUST",8),("SEPTEMBER",9),("OCTCOBER",1
0),("NOVEMBER",11),("DECEMBER",12)]
      for i in range(len(listmonth)):
               if listmonth[i][1]==p-1:
                  monthname=[listmonth[i-2][0],listmonth[i-
1][0],listmonth[i][0]]
                  break
      salesa=[int(i[6]) for i in x if len(i)>0]
      salesb=[int(i[7]) for i in x if len(i)>0]
      salesc=[int(i[8]) for i in x if len(i)>0]
      ordersa=[int(i[9]) for i in x if len(i)>0]
```

```
        ordersb=[int(i[10]) for i in x if len(i)>0]
        ordersc=[int(i[11]) for i in x if len(i)>0]
        avg1=0
        avg2=0
        avg3=0
        avg4=0
        avg5=0
        avg6=0
        for i in salesa:
            avg1+=i
        for i in salesb:
            avg2+=i
        for i in salesc:
            avg3+=i
        for i in ordersa:
            avg4+=i
        for i in ordersb:
            avg5+=i
        for i in ordersc:
            avg6+=i
        sales=[avg1,avg2,avg3]
        orders=[avg4,avg5,avg6]
        #Matplotlib is an inbuilt module in python that helps the user to view
his data in a diagrammatical form,which is more organised and easily
understandable.
        import matplotlib.pyplot as plt
        x = monthname
        y = sales
        a=monthname
        b=orders
        plt.plot(x, y,label="SALES")
        plt.plot(a,b,label="ORDERS")
        plt.xlabel('MONTH')
        plt.ylabel('SALES')
        plt.title('MARKET PULSE')
        plt.legend()
        plt.savefig("MARKETPULSE.png")
        plt.show()
    def projected(user):
        import math
        import csv
        l=[]
        with open("MEDSTORE.csv","r") as f:
            csv_reader=csv.reader(f,delimiter=",")
            next(csv_reader)
            for i in csv_reader:
```

```
            if len(i)>0:
                if i[1]==user:
                    l.extend([int(i[6]),int(i[7]),int(i[8])])
                    name=i[0]
        a=sum(l)/len(l)
        md=[]
        for i in l:
            md.append(i-a)
        mda=sum(md)/len(md)
        projected=l[-1]+mda
        print("DEAR ",name,"YOUR PROJECTED SALES FOR THE NEXT
MONTH IS",math.ceil(projected))
    def personal(user):
        import csv
        import math
        with open("MEDSTORE.csv","r") as f:
                csv_reader=csv.reader(f)
                next(csv_reader)
                x=list(csv_reader)
        salespersonal=[]
        orderspersonal=[]
        for i in x:
            if len(i)>0:
                if i[1]==user:
                    salespersonal.extend([int(i[8]),int(i[7]),int(i[6])])
                    orderspersonal.extend([int(i[11]),int(i[10]),int(i[9])])
        from datetime import date
        today=date.today()
        p=today.month

listmonth=[("JANUARY",1),("FEBRUARY",2),("MARCH",3),("APRIL",4),("MA
Y",5),("JUNE",6),("JULY",7),("AUGUST",8),("SEPTEMBER",9),("OCTCOBER",1
0),("NOVEMBER",11),("DECEMBER",12)]
        for i in range(len(listmonth)):
                if listmonth[i][1]==p-1:
                    monthname=[listmonth[i-2][0],listmonth[i-1][0],listmonth[i][0]]
                    break
        print("1.SEE MY GROWTH\n2.SEE MY MONTHLY SALES
DISTRIBUTION")
        while True:
            opt=input("ENTER YOUR CHOICE: ")
            if opt=="1":
                import matplotlib.pyplot as plt
                x = monthname
                y = salespersonal
                a=monthname
```

```
            b=orderspersonal
            plt.plot(x, y,label="SALES")
            plt.plot(a,b,label="ORDERS")
            plt.xlabel('MONTH')
            plt.ylabel('SALES')
            plt.title('PERSONAL SALES')
            plt.legend()
            plt.savefig("GROWTHPERSONAL.png")
            plt.show()
         elif opt=="2":
            total=0
            for i in salespersonal:
               total+=i
            mod=[]
            for i in salespersonal:
               mod.append(math.ceil((i/total)*100))

            #TO GET SALES IN PERCENTAGE
            import matplotlib.pyplot as plotter
            figureObject, axesObject = plotter.subplots()

axesObject.pie(mod,labels=monthname,autopct='%1.2f',startangle=90,explode
=(0,0,0.3))
            frame=True
            axesObject.axis('equal')
            plotter.savefig("PIEPERSONAL.png")
            plotter.show()
         else:
            break
   def graphall(user):
      import csv
      with open("MEDSTORE.csv","r") as f:
         csv_reader=csv.reader(f)
         next(csv_reader)
         x=list(csv_reader)
      name=[]
      sales=[]
      for i in x:
         if len(i)>0:
            if i[0]!="":
               name.append(i[0])
               sales.append(int(i[6]))
      import matplotlib.pyplot as plt
      left=[]
      number=[]
      c=2
```

```
        m=1
        for i in range(len(sales)):
            left.append(c)
            c+=2
        height = sales
        tick_label = name
        plt.bar(left, height, tick_label = tick_label, width = 0.8, color = ['red',
'green','blue'],label="SELLERS")
        plt.xlabel('SELLERS')
        plt.ylabel('SALES')
        plt.xticks(rotation=-90)
        plt.title('SALES GRAPH OF ALL REGISTERED SELLERS')
        plt.legend()
        plt.savefig("ALLSELLERS.png")
        plt.show()
    def neighbours(user):
        import csv
        import math
        with open("MEDSTORE.csv","r") as f:
            csv_reader=csv.reader(f)
            next(csv_reader)
            x=list(csv_reader)
        neighbourname=[]
        neighboursales=[]
        for i in x:
            if len(i)>0:
                if i[1]==user:
                    pinsearch=i[3]
                    for j in x:
                        if len(j)>0:
                            if math.fabs(int(j[3])-int(pinsearch))<2000 :
                                if j[1]==i[1]:
                                    neighbourname.append("YOUR STORE")
                                    neighboursales.append(int(j[6]))
                                else:
                                    neighbourname.append(j[0])
                                    neighboursales.append(int(j[6]))

        print("1.VIEW ALL MY NEIGHBOURS\n2.GRAPHICALLY VIEW MY
NEIGHBOURS")
        ch=input("ENTER YOUR CHOICE: ")
        if len(neighboursales)>1:
            if ch=="1":
                print("+","-"*25,"+")
                print("|","SL.NO","  |","NEIGHBOUR"," "*6,"|")
                print("+","-"*25,"+")
```

```
            c=0
            for i in range (len(neighbourname)):
                if neighbourname[i]!="YOUR STORE":
                    print("|",c+1,"."," ","|",neighbourname[i]," "*(14-
len(neighbourname[i])),"|")
                    c+=1
            print("+","-"*25,"+")
        elif ch=="2":
            import matplotlib.pyplot as plt
            left=[]
            c=2
            for i in range(len(neighboursales)):
                left.append(c)
                c+=2
            height = neighboursales
            tick_label =neighbourname
            plt.bar(left, height, tick_label = tick_label, width = 0.8, color = ['red',
'green','blue'],label="NEIGHBOURS")
            plt.xlabel('MY NEIGHBOURS')
            plt.ylabel('SALES')
            plt.title('SALES GRAPH OF ALL NEIGHBOURING SELLERS')
            plt.legend()
            plt.xticks(rotation=90)
            plt.savefig("NEIGHBOURS.png")
            plt.show()
    else:
        print("Oops!!You have no neighbours")
  def competitions(user):
    import math
    import csv
    print("1.SET LIMIT\n2.PROCEED WITH DEFAULT LIMIT")
    cha=input("ENTER YOUR CHOICE: ")
    if cha=="1":
        lim=int(input("ENTER YOUR LIMIT: "))
    else:
        lim=10000
    with open("MEDSTORE.csv","r") as f:
            csv_reader=csv.reader(f)
            next(csv_reader)
            x=list(csv_reader)
    compname=[]
    compsales=[]
    for i in x:
        if len(i)>0:
            if i[1]==user:
                salesearch=i[6]
```

```
                for j in x:
                    if len(j)>0:
                        if math.fabs(int(j[6])-int(salesearch))<lim:
                            if j[1]==i[1]:
                                compname.append("YOUR STORE")
                                compsales.append(int(j[6]))
                            else:
                                compname.append(j[0])
                                compsales.append(int(j[6]))
        print("1.VIEW ALL MY NEIGHBOURS\n2.GRAPHICALLY VIEW MY
COMPETITIONS")
        ch=input("ENTER YOUR CHOICE: ")
        if len(compsales)>1:
            if ch=="1":
                print("+","-"*25,"+")
                print("|","SL.NO","  |","COMPETITION"," "*4,"|")
                print("+","-"*25,"+")
                c=0
                for i in range (len(compname)):
                    if compname[i]!="YOUR STORE":
                        print("|",c+1,".","   ","|",compname[i]," "*(14-
len(compname[i])),"|")
                        c+=1
                print("+","-"*25,"+")
            elif ch=="2":
                import matplotlib.pyplot as plt
                left=[]
                c=2
                for i in range(len(compsales)):
                    left.append(c)
                    c+=2
                height = compsales
                tick_label =compname
                plt.bar(left, height, tick_label = tick_label, width = 0.8, color = ['red',
'green','blue'],label="COMPETITIONS")
                plt.xlabel('MY COMPETITIONS')
                plt.xticks(rotation=60)
                plt.ylabel('SALES')
                plt.title('SALES GRAPH OF ALL COMPETITORS')
                plt.legend()
                plt.savefig("COMPETITIONS.png")
                plt.show()
        else:
            print("CONGRATS!!!YOU HAVE NO COMPETITIONS")
    def ranking(user):
        import csv
```

```
        with open("MEDSTORE.csv","r") as f:
            csv_reader=csv.reader(f)
            next(csv_reader)
            x=list(csv_reader)
        name=[]
        sales=[]
        for i in x:
            if len(i)>0:
                if i[1]==user:
                    namesearch=i[0]
                name.append(i[0])
                sales.append(int(i[6]))
        list1=sales
        list2=name
        l=len(list1)
        for i in range(0,l):
            for j in range(l-i-1):
                if list1[j]>list1[j+1]:
                    list1[j+1],list1[j]=list1[j],list1[j+1]
                    list2[j+1],list2[j]=list2[j],list2[j+1]
        list1.reverse()
        list2.reverse()
        print("+","-"*60,"+")
        print("|","RANK  ","   |","SELLER"," "*44,"|")
        print("+","-"*60,"+")
        for i in range(len(list1)):
            print("|",i+1," "*(6-len(str(i+1))),"|",list2[i]," "*(50-len(list2[i])),"|")
            if list2[i]==namesearch:
                position=i+1
        print("+","-"*60,"+")
        print("CONGRATS YOU ARE IN THE",position,"th","position")

    print("WELCOME TO THE REPORT SECTION OF ALL REGISTERD
SELLERS")
    while True:
        print("1.VIEW ALL SELLERS\n2.VIEW MY NEIGHBOURS\n3.VIEW
MY COMPETITIONS\n4.SEE RANKING AND VIEW MY RANK\n5.VIEW
PERSONAL PROFILE\n6.VIEW PROJECTED SALES FOR THE NEXT
MONTH\n7.VIEW MARKET PULSE")
        ch=input("ENTER YOUR CHOICE: ")
        if ch=="1":
            graphall(user)
        elif ch=="2":
            neighbours(user)
        elif ch=="3":
            competitions(user)
```

```
        elif ch=="4":
            ranking(user)
        elif ch=="5":
            personal(user)
        elif ch=="6":
            projected(user)
        elif ch=="7":
            marketpulse()
        else:
            print("INVALID OPTION")
            print("DO YOU WANT TO CONTINUE IN REPORTS SECTION")
            print("1.YES\n2.NO")
            ch=input("ENTER YOUR OPTION: ")
            if ch=="1":
                continue
            elif ch=="2":
                break
                import sys;sys.exit()
def view(user):
    import csv
    with open("MEDSTORE.csv","r") as f:
        csv_reader=csv.reader(f)
        next(csv_reader)
        x=list(csv_reader)
    for i in range(len(x)):
        if len(x[i])>0:
            if x[i][1]==user:
                print("+","-"*133,"+")
                print("|NAME OF MEDICAL STORE"," "*4,"|","SELLER ID","
"*1,"|","LOCATION","  "*2,"|","NAME OF OWNER"," "*1,"|","GST
NUMBER","|","PREVIOUS MONTH SALES","|","PREVIOUS MONTH
ORDERS","|")
                print("+","-"*133,"+")
                print("|",x[i][0]," "*(24-len(x[i][0])),"|",x[i][1]," "*(10-
len(x[i][1])),"|",x[i][2]," "*(12-len(x[i][2])),"|",x[i][4]," "*(14-
len(x[i][4])),"|",x[i][5]," "*(9-len(x[i][5])),"|",x[i][6]," "*(19-
len(x[i][6])),"|",x[i][9]," "*(20-len(x[i][9])),"|")
                print("+","-"*133,"+")
                print("YOU CAN EDIT THE DETAILS")
                print("1.EDIT DETAILS\n2.EXIT")
                ch=input("PLEASE ENTER YOUR CHOICE: ")
                if ch=="1":
                    print("1.STORE DETAILS\n2.FINANCIAL DETAILS")
                    ch1=input("ENTER YOUR OPTION: ")
                    if ch1=="1":
```

```
                print("1.NAME OF THE RETAIL STORE\n2.NAME OF
OWNER\n3.LOCATION AND PINCODE")
                ch2=input("ENETER YOUR CHOICE:")
                if ch2=="1":
                   oldname=input("ENETER THE OLD NAME OF THE
RETAILS STORE AS PER REGISTERED")
                   newname=input("ENETER THE NEW NAME OF THE
RETAILS STORE TO BE REGISTERED")
                   if x[i][0]==oldname:
                      x[i][0]=newname
                   else:
                      print("YOUR DETAILS COULD NOT BE VERIFIED")
                elif ch2=="2":
                   oldname=input("ENETER THE OLD NAME OF THE OWNER
AS PER REGISTERED")
                   newname=input("ENETER THE NEW NAME OF THE
OWNER STORE TO BE REGISTERED")
                   if x[i][4]==oldname:
                      x[i][4]=newname
                   else:
                      print("YOUR DETAILS COULD NOT BE VERIFIED")
                elif ch2=="3":
                   oldloc=input("ENETER THE OLD LOCATION STORE AS
PER REGISTERED")
                   newloc=input("ENETER THE NEW LOCATION THE
RETAILS STORE TO BE REGISTERED")
                   newpin=input("ENETER THE NEW PINCODE OF THE
AREA")
                   if x[i][2]==oldloc:
                      x[i][2]=newloc
                      x[i][3]=newpin
                   else:
                      print("YOUR DETAILS COULD NOT BE VERIFIED")
                else:
                    print("INVALID OPTION")


             elif ch1=="2":
                print("1.GST NUMBER\n2.SALES")
                ch2=input("ENTER YOUR CHOICE: ")
                if ch2=="1":
                   oldgst=input("ENETER THE OLD GST REGISTERED")
                   newgst=input("ENETER THE NEW GST RETAILS STORE TO
BE REGISTERED")
                   if x[i][5]==oldgst:
                      x[i][5]=newgst
```

```
                    else:
                        print("YOUR DETAILS COULD NOT BE VERIFIED")
                elif ch2=="2":
                    newsales=input("ENETER THE NEW SALES OF THE
RETAILS STORE TO BE REGISTERED")
                    x[i][6]=newsales
            h=["NAME OF RETAIL
STORE","ID","LOCATION","PINCODE","NAME OF OWNER","GST
NO","PREVIOUS SALE"]
            with open("MEDSTORE.csv","w",newline='' ) as f:
                csv_writer=csv.writer(f)
                csv_writer.writerow(h)
                csv_writer.writerows(x)
                import sys;sys.exit()
            print("+","-"*133,"+")
            print("|NAME OF MEDICAL STORE"," "*4,"|","SELLER ID","
"*1,"|","LOCATION","  "*2,"|","NAME OF OWNER"," "*1,"|","GST
NUMBER","|","PREVIOUS MONTH SALES","|","PREVIOUS MONTH
ORDERS","|")
            print("+","-"*133,"+")
            print("|",x[i][0]," "*(24-len(x[i][0])),"|",x[i][1]," "*(10-
len(x[i][1])),"|",x[i][2]," "*(12-len(x[i][2])),"|",x[i][4]," "*(14-
len(x[i][4])),"|",x[i][5]," "*(9-len(x[i][5])),"|",x[i][6]," "*(19-
len(x[i][6])),"|",x[i][9]," "*(20-len(x[i][9])),"|")
            print("+","-"*133,"+")
        elif ch=="2":
            import sys;sys.exit()
    else:
        print("INVALID DETAILS")
        import sys;sys.exit()
def newseller():
    import csv
    print("HAI SELLER TO VIEW YOUR REPORTS PLEASE REGISTER")
    ch=input("PRESS THE ENTER THE ENTER KEY TO REGISTER AS A
SELLER: ")
    if ch=="":
        def okay():
            import csv

templist=[a.get(),b.get(),c.get(),int(d.get()),e.get(),f.get(),int(g.get()),int(h.get()),
int(i.get()),int(j.get()),int(k.get()),int(l.get())]
            if int(g.get()) >10000 and int(h.get())>10000 and int(i.get())>10000:
                with open("MEDSTORE.csv","a") as f1:
                    csv_writer=csv.writer(f1)
                    csv_writer.writerow(templist)
                    user=b.get()
```

```
            else:
                print("SORRY YOUR STORE DOES NOT SATISFY ALL THE
NECESSARY CONDITIONS TO REGISTER")
                print("PLEASE REFER TO THE DISCLAIMER")
                import sys;sys.exit()
            window.destroy()
            print("1.VIEW MY PROFILE\n2.REPORTS")
            ch=input("ENTER YOUR OPTION: ")
            if ch=="1":
                view(user)
            elif ch=="2":
                reportseller(user)
                image()
        import tkinter
        window=tkinter.Tk()
        window.title("REGISTRATION")
        tkinter.Label(window,text="ENTER THE NAME OF YOUR RETAIL
STORE").grid(row=0)
        a=tkinter.Entry(window)
        a.grid(row=0,column=1)
        tkinter.Label(window,text="ENTER A USER ID FOR YOUR RETAIL
SHOP").grid(row=1)
        b=tkinter.Entry(window)
        b.grid(row=1,column=1)
        tkinter.Label(window,text="ENTER THE LOCATION OF YOUR RETAIL
STORE").grid(row=2)
        c=tkinter.Entry(window)
        c.grid(row=2,column=1)
        tkinter.Label(window,text="ENTER THE PINCODE OF YOUR
STORE").grid(row=3)
        d=tkinter.Entry(window)
        d.grid(row=3,column=1)
        tkinter.Label(window,text="ENTER THE NAME OF THE RETAIL
STORE OWNER").grid(row=4)
        e=tkinter.Entry(window)
        e.grid(row=4,column=1)
        tkinter.Label(window,text="ENTER THE GST ID OF YOUR
STORE").grid(row=5)
        f=tkinter.Entry(window)
        f.grid(row=5,column=1)
        tkinter.Label(window,text="ENTER THE PREVIOUS MONTH
SALES").grid(row=6)
        g=tkinter.Entry(window)
        g.grid(row=6,column=1)
        tkinter.Label(window,text="ENTER THE SECOND PREVIOUS MONTH
SALES").grid(row=7)
```

```
        h=tkinter.Entry(window)
        h.grid(row=7,column=1)
        tkinter.Label(window,text="ENTER THE THIRD PREVIOUS MONTH
SALES").grid(row=8)
        i=tkinter.Entry(window)
        i.grid(row=8,column=1)
        tkinter.Label(window,text="ENTER THE NUMBER OF ORDERS
RECEIVED IN THE LAST MONTH").grid(row=9)
        j=tkinter.Entry(window)
        j.grid(row=9,column=1)
        tkinter.Label(window,text="ENTER THE NUMBER OF ORDERS
RECEIVED IN THE SECOND LAST MONTH").grid(row=10)
        k=tkinter.Entry(window)
        k.grid(row=10,column=1)
        tkinter.Label(window,text="ENTER THE NUMBER OF ORDERS
RECEIVED IN THE THIRD LAST MONTH").grid(row=11)
        l=tkinter.Entry(window)
        l.grid(row=11,column=1)
        bt=tkinter.Button(window,text="SUBMIT",command=okay)
        bt.grid(row=12)
        u=b.get()
        print(u)
        return u
def ShowChoice():
    num=u.get()
    root.destroy()
    if num==0:
        def close():
            user=a.get()
            window.destroy()
            print("1.VIEW MY PROFILE\n2.REPORTS")
            ch=input("ENTER YOUR OPTION")
            if ch=="1":
                view(user)
            elif ch=="2":
                reportseller(user)
                image()
            else:
                import sys;sys.exit()
        import tkinter
        window=tkinter.Tk()
        window.title("SIGNIN")
        tkinter.Label(window,text="ENTER YOUR USER ID").grid(row=0)
        a=tkinter.Entry(window)
        a.grid(row=0,column=1)
        bt=tkinter.Button(window,text="SUBMIT",command=close)
```

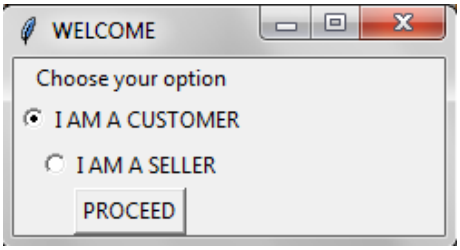
```
        bt.grid(row=1)
    elif num==1:
        user=newseller()
    elif num==2:
        def TERMS():
            import os;os.startfile("TERMS AND CONDITIONS.txt")
            print("THANK YOU FOR VISITING MEDPLUS")
            window.destroy()
        import tkinter
        import tkinter
        window=tkinter.Tk()
        window.title("TERMS AND CONDITION")
        tkinter.Label(window,text="DEAR SELLER YOU CAN VIEW OUR
TERMS AND CONDITIONS BY CLICKING PROCEED").grid(row=0)
        bt=tkinter.Button(window,text=">>>PROCEED",command=TERMS)
        bt.grid(row=1)
import tkinter
root=tkinter.Tk()
root.title("WELCOME")
u = tkinter.IntVar()
u.set(0)
users = [("EXISTING USER",1),("NEW USER",2),("VIEW THE TERMS AND
CONDITIONS",3)]
tkinter.Label(root,
        text="""Choose your option""").grid(row=0)
c1=0
for val, user in enumerate(users):
    c1+=1
    tkinter.Radiobutton(root,
                text=user[0],

                variable=u,
                value=val).grid(row=c1)
bt=tkinter.Button(root,text="PROCEED",command=ShowChoice)
bt.grid(columnspan=3)
```

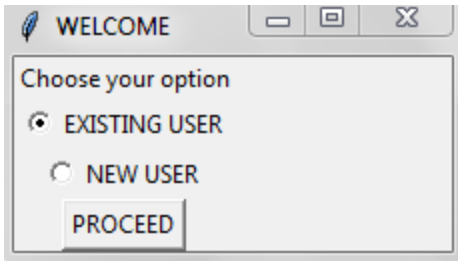
PYTHON OUTPUTS

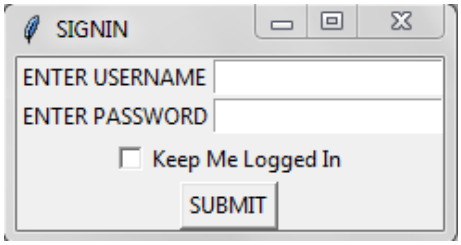
CUSTOMER

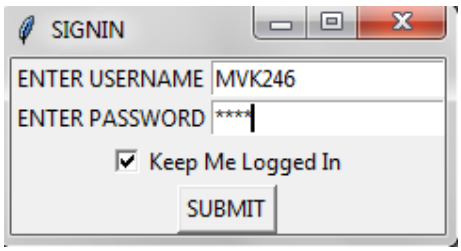
1.LOGIN AND REGISTRATION



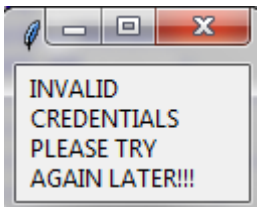
1.1EXISTING USER-LOGIN







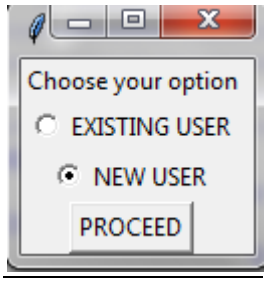
1.1.1PASSWORD AND USERNAME NOT MATCHED

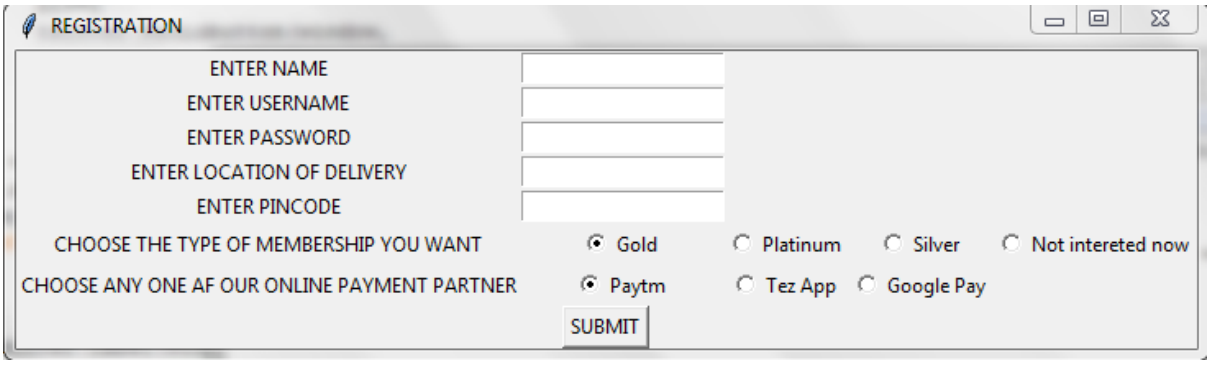


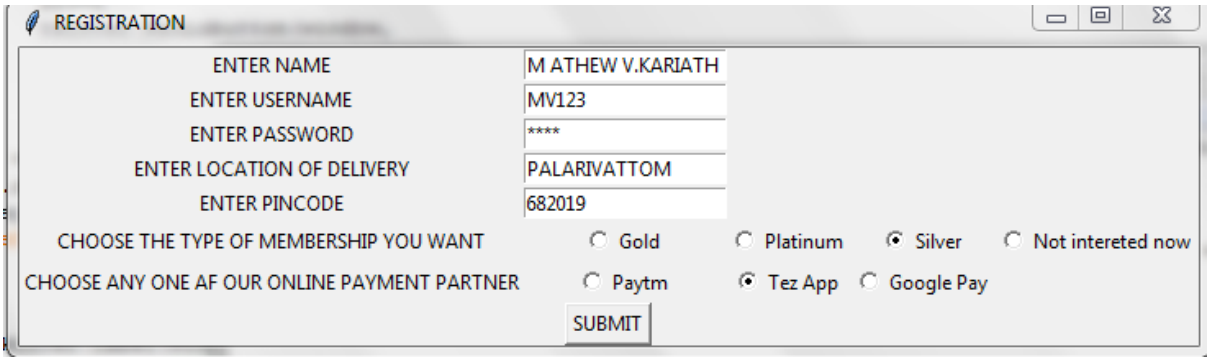
1.1.2 PASS WORD AND USERNAME MATCHED

HAI Mathew V.Kariath WELCOME TO MEDPLUS.COM
LET'S BEGIN SHOPPING!!!,TO CONTINUE SHOPPING PRESS THE ENTER KEY:

1.2 NEW CUSTOMER REGISTRATION







HAI MATHEW V.KARIATH WELCOME TO MEDPLUS.COM
LET'S BEGIN SHOPPING!!!,TO CONTINUE SHOPPING PRESS THE ENTER KEY:

2.SHOPPING

2.1HAVE A PRESCRIPTION

NOTE:THE USER WILL NOT HAVE THE LIST OF MEDICINES AVAILABLE IN OUR MEDICINE DIRECTORY.THE USER WILL HAVE TO ENTER THE NAMES OF THE MEDICINES AS PRESCRIBED BY THE MEDICAL PRACTITIONER

```
1.HAVE A PRESCRIPTION
2.NO PRESRIPTION
ENTER YOUR CHOICE: 1
ENTER NUMBER OF MEDICINES: 5
ENTER THE NAME OF THE MEDICINE: Paracetamol
ENTER THE QUANTITY REQUIRED: 12
ENTER THE NAME OF THE MEDICINE: Acyclovir
ENTER THE QUANTITY REQUIRED: 23
ENTER THE NAME OF THE MEDICINE: Paracip
ENTER THE QUANTITY REQUIRED: 90
ENTER THE NAME OF THE MEDICINE: Nicardia Retard
ENTER THE QUANTITY REQUIRED: 20
ENTER THE NAME OF THE MEDICINE: Strepsils
ENTER THE QUANTITY REQUIRED: 10
OOPS!!!NOT FOUND
+ ------------------------------------------- +
| SL.NO  | DESCRIPTION                | QUANTITY|
+ ------------------------------------------- +
| 1      | Paracetamol                | 12      |
| 2      | Acyclovir                  | 23      |
| 3      | Paracip                    | 90      |
| 4      | Nicardia Retard            | 20      |
+ ------------------------------------------- +
```

.

2.2 HAVE NO PRESCRIPTION

NOTE:THE USER CAN CHOOSE THE REQUIRED MEDICINEDS FROM THE LIST OF MEDICINES

```
ENTER YOUR CHOICE: 2
+ ---------------------------- +
| A.  | Alopathy               |
+ ---------------------------- +
| 1 . | Amifostine             |
| 2 . | Captropil              |
| 3 . | Nicardia Retard        |
| 4 . | Paracip                |
| 5 . | Vicks Gel              |
+ ---------------------------- +
+ ---------------------------- +
| B.  | Ayurvedic              |
+ ---------------------------- +
| 1 . | Acyclovir              |
| 2 . | B Positive             |
| 3 . | Cyclopam               |
| 4 . | Paracetamol            |
| 5 . | Prazoprez XL           |
| 6 . | Volini                 |
+ ---------------------------- +
+ ---------------------------- +
| C.  | Beauty                 |
+ ---------------------------- +
| 1 . | Clopilet 1000mg        |
| 2 . | Nutrichoice            |
+ ----------------------------+
+ ------------------------------------- +
| D.  | Health Suppliment      |
+ ------------------------------------- +
| 1 . | Alegra                 |
| 2 . | Amruthanjan Roll On    |
| 3 . | Busulfan               |
| 4 . | Clopilet 500mg         |
| 5 . | Dettol                 |
| 6 . | T-Bact                 |
+ ------------------------------------- +
ENTER THE NUMBER OF MEDICINES YOU WOULD LIKE TO CHOOSE: 4
ENTER THE TYPE OF MEDICINE A/B/C/D: B
ENTER THE SERIAL NUMBER OF MEDICINE: 4
ENTER THE QUANTITY YOU WOULD LIKE TO PURCHASE: 12
ENTER THE TYPE OF MEDICINE A/B/C/D: B
ENTER THE SERIAL NUMBER OF MEDICINE: 1
ENTER THE QUANTITY YOU WOULD LIKE TO PURCHASE: 23
ENTER THE TYPE OF MEDICINE A/B/C/D: A
ENTER THE SERIAL NUMBER OF MEDICINE: 4
ENTER THE QUANTITY YOU WOULD LIKE TO PURCHASE: 90
ENTER THE TYPE OF MEDICINE A/B/C/D: A
ENTER THE SERIAL NUMBER OF MEDICINE: 3
ENTER THE QUANTITY YOU WOULD LIKE TO PURCHASE: 20
+ ------------------------------------------ +
| SL.NO  | DESCRIPTION                | QUANTITY|
+ ------------------------------------------ +
| 1      | Paracetamol                | 12      |
| 2      | Acyclovir                  | 23      |
| 3      | Paracip                    | 90      |
| 4      | Nicardia Retard            | 20      |
```

3.VIEWING THE CART AND MAKE CHANGES IF NECESSARY

SL.NO	DESCRIPTION	QUANTITY
1	Paracetamol	12
2	Acyclovir	23
3	Paracip	90
4	Nicardia Retard	20

3.1 REMOVING AN ITEM

SL.NO	DESCRIPTION	QUANTITY
1	Paracetamol	12
2	Acyclovir	23
3	Paracip	90
4	Nicardia Retard	20

1.PROCEED TO PAYMENT
2.EDIT MY CART
ENTER YOUR CHOICE: 2
PLEASE ENTER THE SERIAL NUMBER OF THE ITEM YOU WANT TO MAKE CHANGE TO: 1
1.REMOVE THIS ITEM FROM THE LIST
2.MAKE A CHANGE IN THE QUANTITY
ENTER YOUR CHOICE: 1
THE ITEM HAS BEEN REMOVED FROM YOUR CART

SL.NO	DESCRIPTION	QUANTITY
1	Acyclovir	23
2	Paracip	90
3	Nicardia Retard	20

TO PROCEED TO PAYMENT PRESS THE ENTER KEY:

MEDPLUS.COM	TAX INVOICE
SOLD BY:	BILLING LOCATION\PINCODE:
Hospimed Healthcare	Amalendu P
Vyttila	Marady
682019	682019

SL.NO	DESCRIPTION	UNIT PRICE	TAX	QUANTITY	NET RATE	TOTAL AMOUNT
1	Acyclovir	17.0	18	23	391.0	461.38
2	Paracip	0.75	12	90	67.5	75.6
3	Nicardia Retard	77.87	20	20	1557.4	1868.88

TYPE OF MEMBERSHIP	Platinum
% OF DISCOUNT	15
NET RATE	2015.9
TOTAL TAX AMOUNT	389.96
TOTAL BILL AMOUNT	2405.8
TOTAL AMOUNT PAYABLE	2044.9

NOW IT'S TIME FOR PAYMENT!!!!
a.CASH ON DELIVERY
b.PAYMENT THROUGH OUR ONLINE PARTNER's APP
c.NET BANKING

3.2 MAKE A CHANGE IN THE QUANTITY

SL.NO	DESCRIPTION	QUANTITY
1	Paracetamol	12
2	Acyclovir	23
3	Paracip	90
4	Nicardia Retard	20

1.PROCEED TO PAYMENT
2.EDIT MY CART
ENTER YOUR CHOICE: 2
PLEASE ENTER THE SERIAL NUMBER OF THE ITEM YOU WANT TO MAKE CHANGE TO: 1
1.REMOVE THIS ITEM FROM THE LIST
2.MAKE A CHANGE IN THE QUANTITY
ENTER YOUR CHOICE: 2
PLEASE ENTER THE SERIAL NUMBER OF THE ITEM YOU WANT TO MAKE CHANGE TO: 2
1.REMOVE THIS ITEM FROM THE LIST
2.MAKE A CHANGE IN THE QUANTITY
ENTER YOUR CHOICE: 2
PLEASE ENTER THE NEW QUANTITY: 45
THE QUANTITY HAS BEEN CHANGED

SL.NO	DESCRIPTION	QUANTITY
1	Paracetamol	12
2	Acyclovir	45
3	Paracip	90
4	Nicardia Retard	20

TO PROCEED TO PAYMENT PRESS THE ENTER KEY:

MEDPLUS.COM	TAX INVOICE
SOLD BY:	BILLING LOCATION\PINCODE:
Hospimed Healthcare	Amalendu P
Vyttila	Marady
682019	682019

SL.NO	DESCRIPTION	UNIT PRICE	TAX	QUANTITY	NET RATE	TOTAL AMOUNT
1	Paracetamol	0.5	9	12	6.0	6.54
2	Acyclovir	17.0	18	45	765.0	902.699
3	Paracip	0.75	12	90	67.5	75.6
4	Nicardia Retard	77.87	20	20	1557.4	1868.88

TYPE OF MEMBERSHIP	Platinum
% OF DISCOUNT	15
NET RATE	2395.9
TOTAL TAX AMOUNT	457.82
TOTAL BILL AMOUNT	2853.7
TOTAL AMOUNT PAYABLE	2425.6

4.PAYMENT PAGE

1.PROCEED TO PAYMENT
2.EDIT MY CART
ENTER YOUR CHOICE: 1

```
+ ------------------------------------------------------------------------------------------------------------ +
| MEDPLUS.COM                                                                                    TAX INVOICE |
| SOLD BY:                                                                  BILLING LOCATION\PINCODE:          |
| The Galaxy Pharma                                                                          Mathew V Kariath |
| Palakkad                                                                                          Kottayam |
| 692333                                                                                             691836 |
+ ------------------------------------------------------------------------------------------------------------ +

  + ------------------------------------------------------------------------------------------------------ +
  | SL.NO  | DESCRIPTION              | UNIT PRICE  | TAX    | QUANTITY| NET RATE      | TOTAL AMOUNT |
  + ------------------------------------------------------------------------------------------------------ +
  | 1      | Paracetamol              | 0.5         | 9      | 12      | 6.0           | 6.54         |
  | 2      | Acyclovir                | 17.0        | 18     | 23      | 391.0         | 461.38       |
  | 3      | Paracip                  | 0.75        | 12     | 90      | 67.5          | 75.6         |
  | 4      | Nicardia Retard          | 77.87       | 20     | 20      | 1557.4        | 1868.88      |
  + ------------------------------------------------------------------------------------------------------ +
+ ------------------------------------------------------------------------------------------------------------ +
| TYPE OF MEMBERSHIP                                                                                  Silver |
| % OF DISCOUNT                                                                                            5 |
| NET RATE                                                                                            2021.9 |
| TOTAL TAX AMOUNT                                                                                     390.5 |
| TOTAL BILL AMOUNT                                                                                   2412.4 |
+ ------------------------------------------------------------------------------------------------------------ +
| TOTAL AMOUNT PAYABLE                                                                                2291.7 |
+ ------------------------------------------------------------------------------------------------------------ +
```

NOW IT'S TIME FOR PAYMENT!!!!
a.CASH ON DELIVERY
b.PAYMENT THROUGH OUR ONLINE PARTNER's APP
c.NET BANKING

MODE OF PAYMENT

NOW IT'S TIME FOR PAYMENT!!!!
a.CASH ON DELIVERY
b.PAYMENT THROUGH OUR ONLINE PARTNER's APP
c.NET BANKING
ENTER YOUR CHOICE TO PROCEED:

4.1 CASH ON DELIVERY

ENTER YOUR CHOICE TO PROCEED: a
THANK YOU FOR CHOOSING CASH ON DELIVERY OPTION
PLEASE HAND OVER THE EXACT CHANGE TO OUR SERVICE EXCECUTIVE

4.2 PAYMENT THROUGH OUR ONLINE PARTNER's APP

4.2.1 CONTINUE WITH OPTION CHOSEN AT TIME OF REGISTRATION

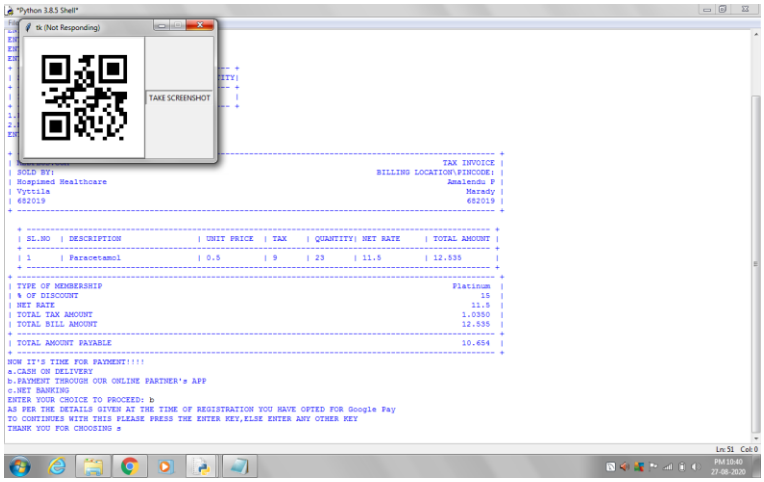
ENTER YOUR CHOICE TO PROCEED: b
AS PER THE DETAILS GIVEN AT THE TIME OF REGISTRATION YOU HAVE OPTED FOR Google Pay
TO CONTINUES WITH THIS PLEASE PRESS THE ENTER KEY,ELSE ENTER ANY OTHER KEY
THANK YOU FOR CHOOSING Google Pay
OUR SERVICE EXCECUTIVE WILL HELP YOU TO COMPLETE THE TRANSACTION AT THE TIME OF DELIVERY

4.2.2CHANGE THE OPTION:

ENTER YOUR CHOICE TO PROCEED: B
AS PER THE DETAILS GIVEN AT THE TIME OF REGISTRATION YOU HAVE OPTED FOR Google Pay
TO CONTINUES WITH THIS PLEASE PRESS THE ENTER KEY,ELSE ENTER ANY OTHER KEY no
NOW YOU CAN CHOOSE OUR PREFERRED PARTNER.THIS IS ONLY A TEMPORARY CHANGE.
1.Google Pay
2.Tez App
3.Paytm
ENTER YOUR CHOICE: 2
THANK YOU FOR CHOOSING Tez App
OUR SERVICE EXCECUTIVE WILL HELP YOU TO COMPLETE THE TRANSACTION AT THE TIME OF DELIVERY

QR CODE GENERATION

THE SCREENSHOT TAKEN BY CLICKING "TAKE SCREENSHOT"



4.3 ONLINE PAYMENT

4.3.1EXISTING USER:

4.3.1.1 NO MATCH AND REGISTER NEW CARD:

```
ENTER USERNAME: VMK3119
ENTER A CARD NUMBER: 6048631042374130
ENTER CVV OF YOUR CARD: 290
ENTER YEAR OF EXPIRY: 2023
ENTER MONTH OF EXPIRY: 7
INVALID CREDENTIALS
OOPS WE WERE UNABLE TO FIND THE CARD IN OUR DATABASE.
TO REGISTER A NEW CARD PRESS THE ENTER KEY:
ENTER YOUR NEW USERNAME:MVK246
ENTER YOUR CARD NUMBER: 6048631042374135
ENTER CVV NUMBER: 142
ENTER YEAR OF EXPIRY: 2023
ENTER MONTH OF EXPIRY: 09
```

4.3.1.2 MATCHED

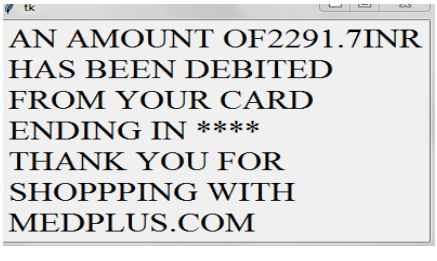
```
ENTER YOUR USERNAME:MVK246
ENTER YOUR CARD NUMBER: 6048631042374135
ENTER CVV NUMBER: 142
ENTER YEAR OF EXPIRY: 2023
ENTER MONTH OF EXPIRY: 09
```

4.3.2 NEW USER-REGISTERING A NEW CARD

```
ENTER YOUR NEW USERNAME:MVK246
ENTER YOUR CARD NUMBER: 6048631042374135
ENTER CVV NUMBER: 142
ENTER YEAR OF EXPIRY: 2023
ENTER MONTH OF EXPIRY: 09
```

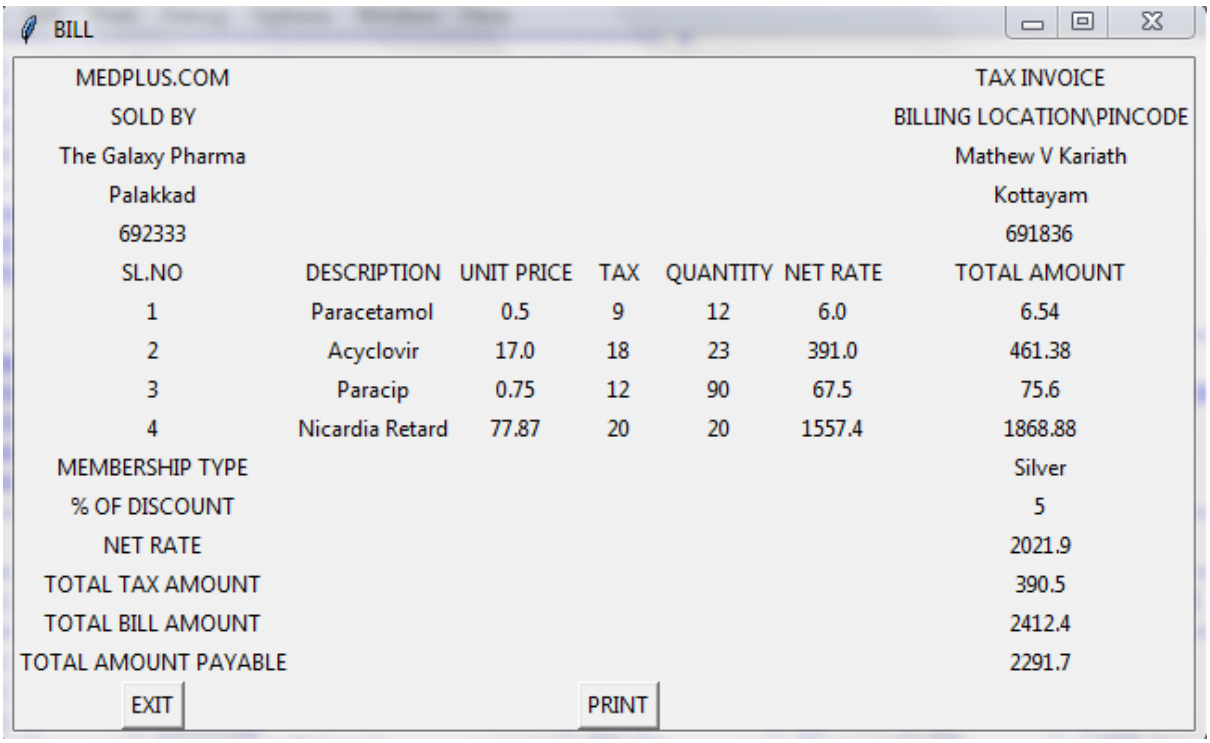
4.3.3 OTP GENERATION FOR COMPLETING PAYMENT

```
YOUR OTP FOR THE TRANSACTION OF 2291.7 INR is RHYpMH . THIS SHOULD NOT
BE REVEALED TO ANY ONE.THIS WILL BE VALID FOR ONLY 3 ATTEMPTS
RHYpMH
ENTER OTP: RHYpMh
ATTEMPT UNSUCCESSFULL,TRY AGAIN
ENTER OTP: RHYpMH
SUCCESSFULLY TRANSFERRED
```



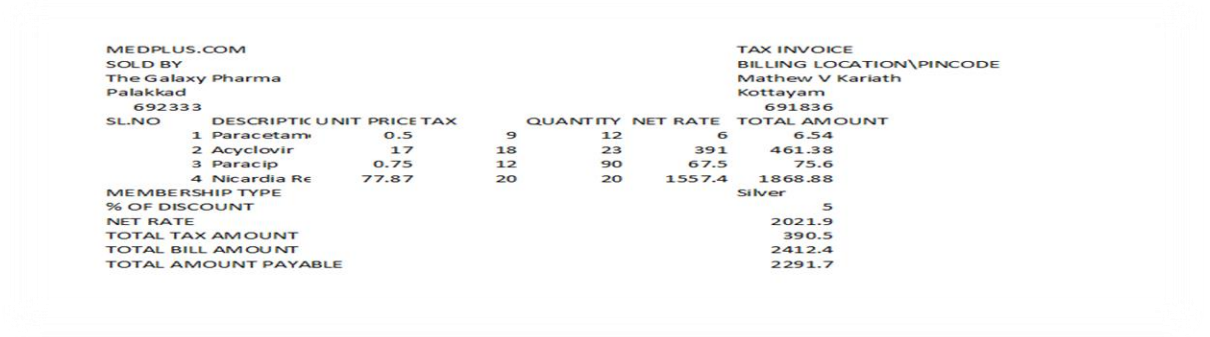
4.3.4 AFTER SUCCESSFUL PAYMENT

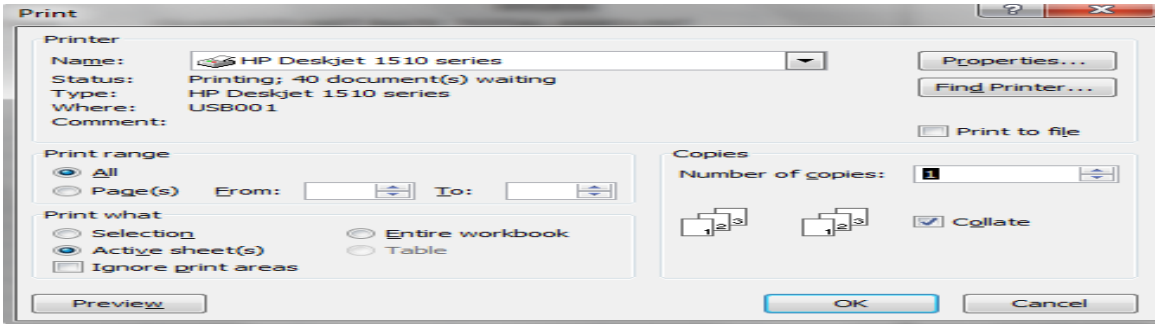
5.BILL GENERATION



ON CLICKING "PRINT"-THE EXCEL FILE NAMED "BILL " WILL POP UP AND THE BILL IS PRINTED IF CONNECTED TO A PRINTER

PRINT PREVIEW OF THE EXCEL SHEET

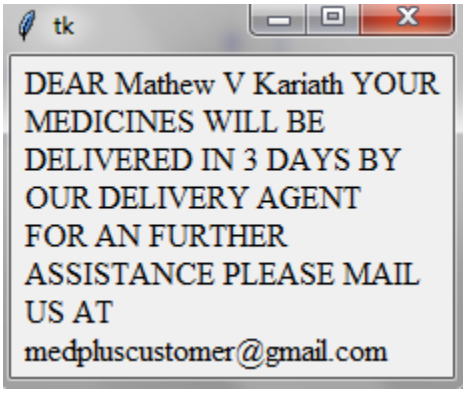




ON CLICKING "OK" THE PRINTER GETS ACTIVE AND PRINTS THE DOCUMENT

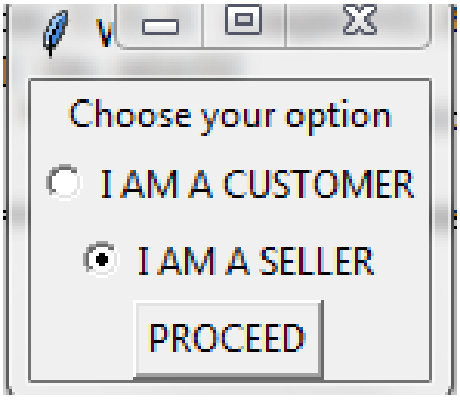
6.CLOSING

THANK YOU FOR CHOOSING MEDPLUS.COM

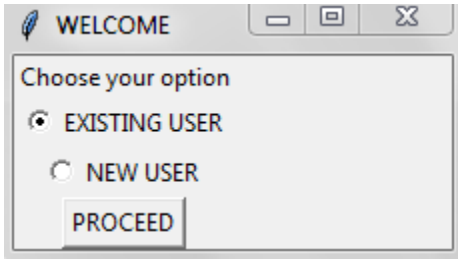


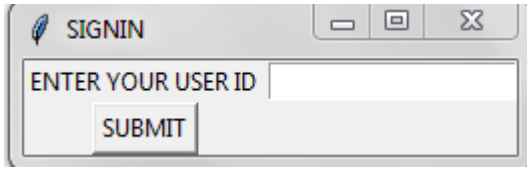
SELLER

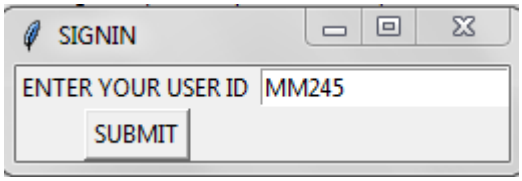
1.LOGIN AND REGISTRATION



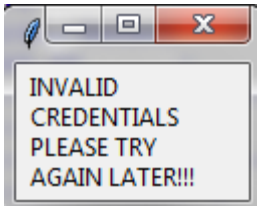
1.1EXISTING USER-LOGIN







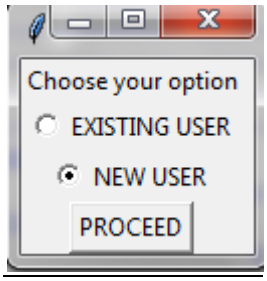
1.1.1USERNAME NOT FOUND IN DATABASE



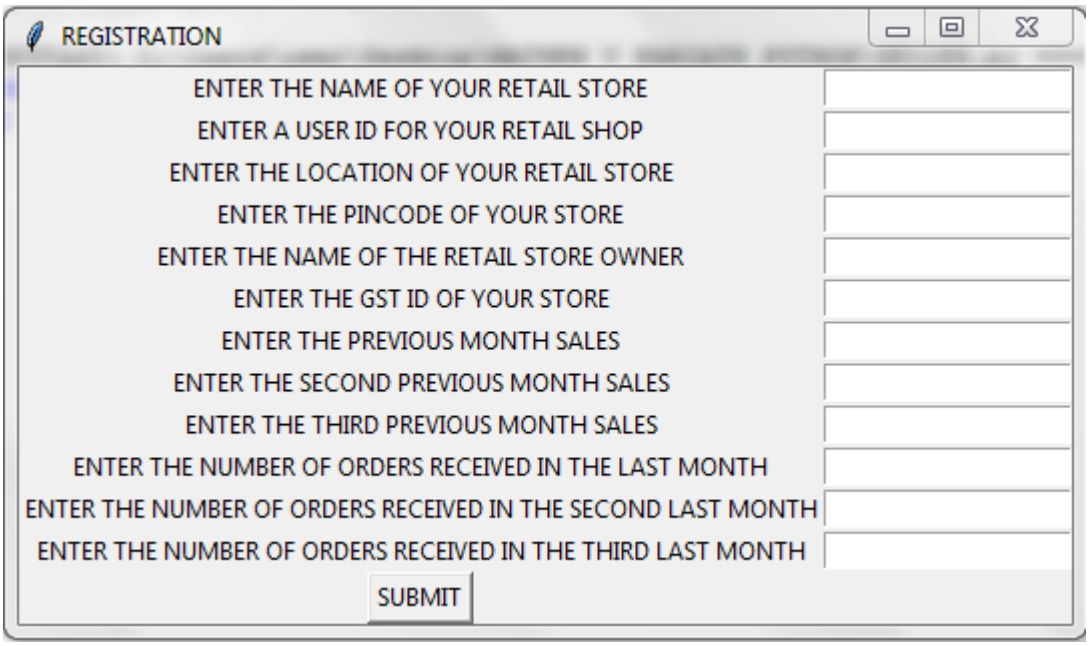
1.1.2PASS WORD AND USERNAME MATCHED

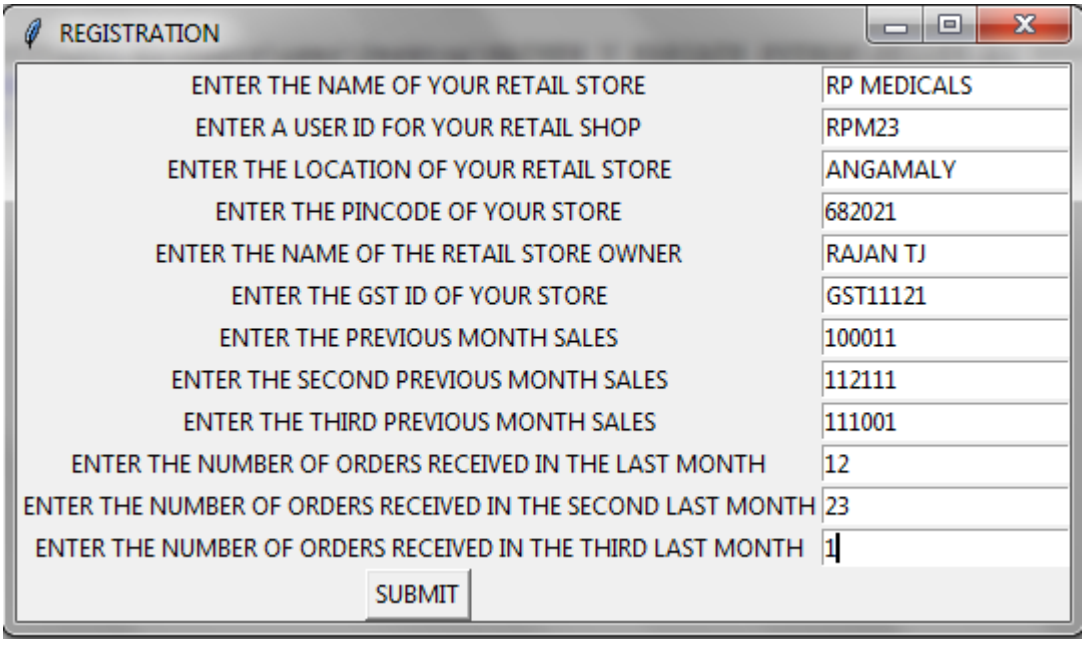
HAI MG MEDICALS WELCOME TO MEDPLUS.COM

1.2 NEW CUSTOMER REGISTRATION



HAI SELLER TO VIEW YOUR REPORTS PLEASE REGISTER PRESS THE ENTER THE ENTER KEY TO REGISTER AS A SELLER:





HAI RP MEDICALS WELCOME TO MEDPLUS.COM

```
1.VIEW MY PROFILE
2.REPORTS
```

2.VIEW MY PROFILE

```
+-------------------------+-----------+-----------+---------------+------------+-------------------+---------------------+
|NAME OF MEDICAL STORE    | SELLER ID | LOCATION  | NAME OF OWNER | GST NUMBER | PREVIOUS MONTH SALES | PREVIOUS MONTH ORDERS |
+-------------------------+-----------+-----------+---------------+------------+-------------------+---------------------+
| MG MEDICALS             | MM245     | Moonar    | THOMAS        | GST123123  | 12000             | 111                 |
+-------------------------+-----------+-----------+---------------+------------+-------------------+---------------------+
```

YOU CAN EDIT THE DETAILS
1.EDIT DETAILS
2.EXIT

2.1EDITING DETAILS

NOTE:THE USER CAN NOW EDIT THE DETAILS REGARDING HIS RETAIL STORE

```
PLEASE ENTER YOUR CHOICE: 1
1.STORE DETAILS
2.FINANCIAL DETAILS
ENTER YOUR OPTION:
```

2.1.1 STORE DETAILS

NOTE:THE USER CAN EDIT DETAILS REGARDING THE STORE LIKE NAME OF RETAIL STORE,NAME OF OWNER AND LOCATION

```
1.NAME OF THE RETAIL STORE
2.NAME OF OWNER
3.LOCATION AND PINCODE
```

2.1.1.1 NAME OF RETAIL STORE

```
ENTER YOUR CHOICE:1
ENTER THE OLD NAME OF THE RETAILS STORE AS PER REGISTERED: MG MEDICALS
ENTER THE NEW NAME OF THE RETAILS STORE TO BE REGISTERED: MG PHARMACY
```

2.1.1.2 NAME OF OWNER

```
ENTER YOUR CHOICE:2
ENTER THE OLD NAME OF THE OWNER AS PER REGISTERED: THOMAS
ENTER THE NEW NAME OF THE OWNER STORE TO BE REGISTERED: JOSEPH
```

2.1.1.3 LOCATION AND PINCODE

```
ENTER YOUR CHOICE:3
ENTER THE OLD LOCATION STORE AS PER REGISTERED: Moonar
ENTER THE NEW LOCATION THE RETAILS STORE TO BE REGISTERED: IDUKKI
ENTER THE NEW PINCODE OF THE AREA: 682020
```

2.1.2 FINANCIAL DETAILS

NOTE:THE USER CAN CHANGE THE DETAILS LIKE HIS SALES OF THE PREVIOUS MONTH AND THE GST NUMBER

```
1.GST NUMBER
2.SALES
ENTER YOUR CHOICE:
```

2.1.2.1 GST NUMBER

```
ENTER YOUR CHOICE: 1
ENETER THE OLD GST REGISTERED: GST123123
ENETER THE NEW GST RETAILS STORE TO BE REGISTERED: GST123120
```

2.1.2.2 SALES AMOUNT

```
ENTER YOUR CHOICE: 2
ENETER THE NEW SALES OF THE RETAILS STORE TO BE
REGISTERED11000
```

2.2 DETAILS AFTER EDIT

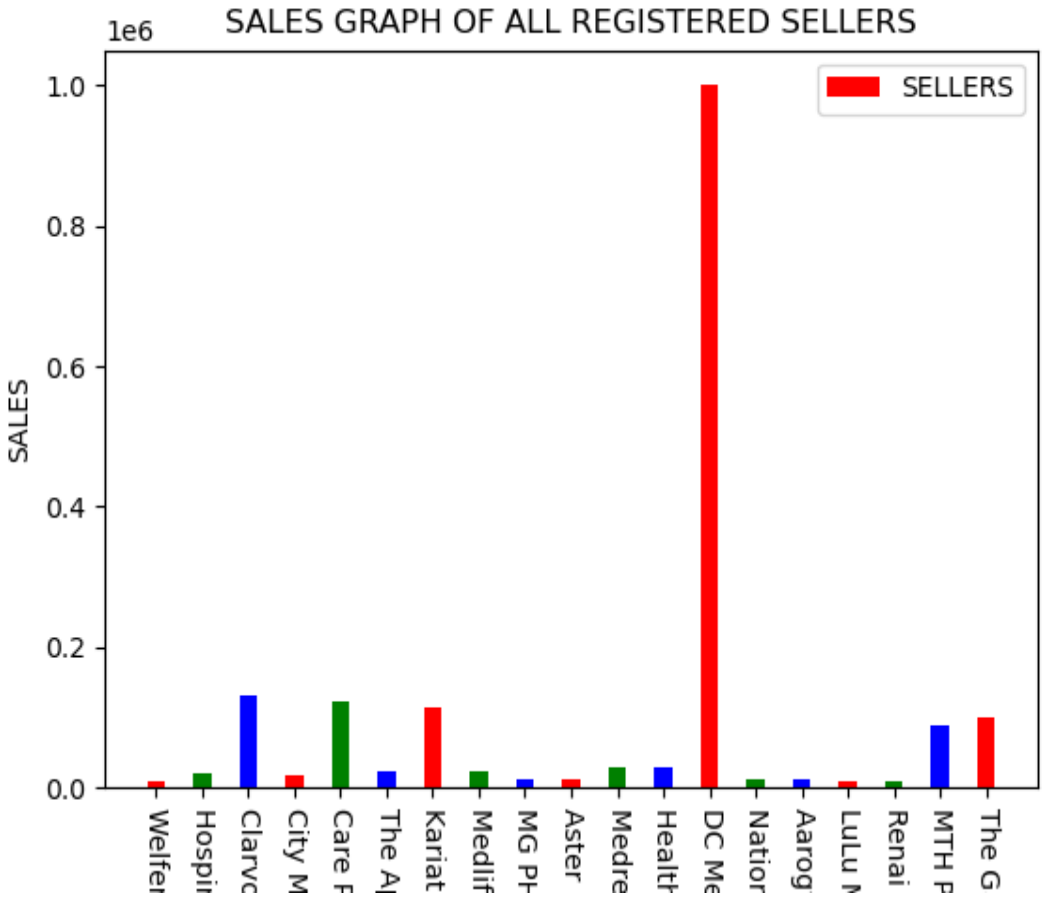
NAME OF MEDICAL STORE	SELLER ID	LOCATION	NAME OF OWNER	GST NUMBER	PREVIOUS MONTH SALES	PREVIOUS MONTH ORDERS
MG PHARMACY	MM245	IDUKKI	JOSEPH	GST123120	11000	111

3.REPORTS SECTION

WELCOME TO THE REPORT SECTION OF ALL REGISTERD SELLERS
1.VIEW ALL SELLERS
2.VIEW MY NEIGHBOURS
3.VIEW MY COMPETITIONS
4.SEE RANKING AND VIEW MY RANK
5.VIEW PERSONAL PROFILE
6.VIEW PROJECTED SALES FOR THE NEXT MONTH
7.VIEW MARKET PULSE
ENTER YOUR CHOICE:

3.1 VIEW ALL SELLERS

NOTE:VIEW THE BAR GRAPH OF ALL SELLERS REGISTERED WITH MEDPLUS.COM



3.2 VIEW NEIGHBOURS

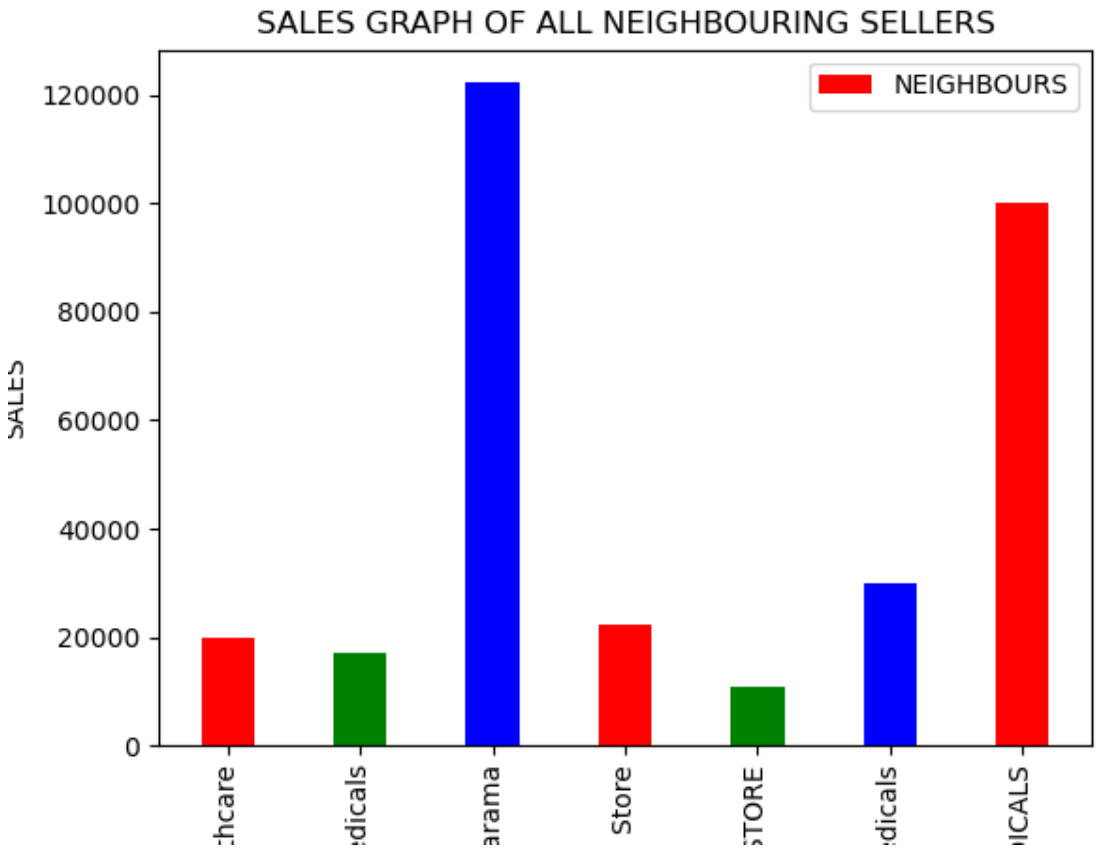
NOTE:THE SELLER CAN VIEW ALL HIS NIGHBOURS AS WELL AS THEIR SALES

```
1.VIEW ALL MY NEIGHBOURS
2.GRAPHICALLY VIEW MY NEIGHBOURS
ENTER YOUR CHOICE:
```

3.2.1 VIEW ALL MY NEIGHBOURS

```
ENTER YOUR CHOICE: 1
+ ----------------------------------+
| SL.NO    | NEIGHBOUR              |
+ ----------------------------------+
| 1 .      | Hospimed Healthcare    |
| 2 .      | City Medicals          |
| 3 .      | Care Pharama           |
| 4 .      | The Apple Medical Store|
| 5 .      | Healthilfe Medicals    |
+ ----------------------------------+
```

3.2.2 GRAPHICALLY VIEW MY NEIGHBOURS



3.3 VIEW COMPETITORS

NOTE:THE SELLER CAN VIEW ALL HIS COMPETITINS AS WELL AS THEIR SALES

```
1.SET LIMIT
2.PROCEED WITH DEFAULT LIMIT
ENTER YOUR CHOICE:
```

3.3.1 SETTING A LIMIT OF COMPARISON

NOTE:NOW THE USER CAN SET A LIMIT IN RUPEES TO COMPARE HIMSELF

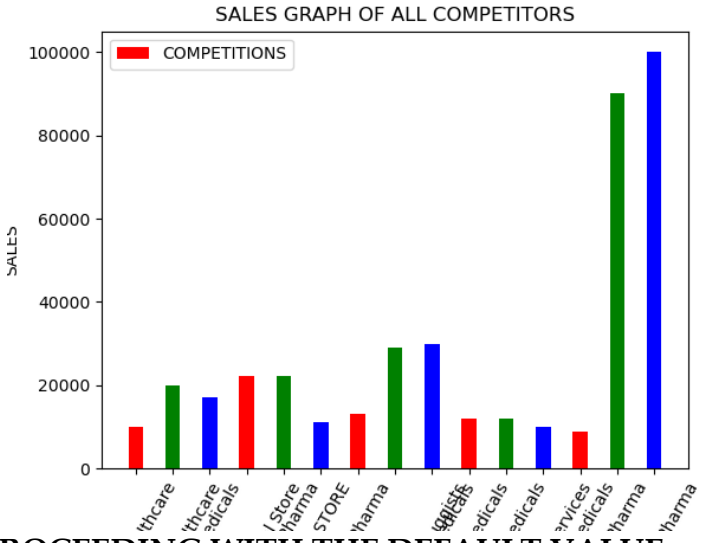
WITH OTHERS

```
ENTER YOUR CHOICE: 1
ENTER YOUR LIMIT: 100000
1.VIEW ALL MY COMPETITIONS
2.GRAPHICALLY VIEW MY COMPETITIONS
ENTER YOUR CHOICE:
```

3.3.1.1 VIEW ALL COMPETITIONS

SL.NO	COMPETITION
1 .	Welfer Healthcare
2 .	Hospimed Healthcare
3 .	City Medicals
4 .	The Apple Medical Store
5 .	Medlife Pharma
6 .	Aster Pharma
7 .	Medrely -Chemists and Druggists
8 .	Healthilfe Medicals
9 .	National Medicals
10 .	Aarogya Medicals
11 .	LuLu Medical Services
12 .	Renai Medicals
13 .	MTH Pharma
14 .	The Galaxy Pharma

3.3.1.2 GRAPHICALLY VIEW MY COMPETITIONS

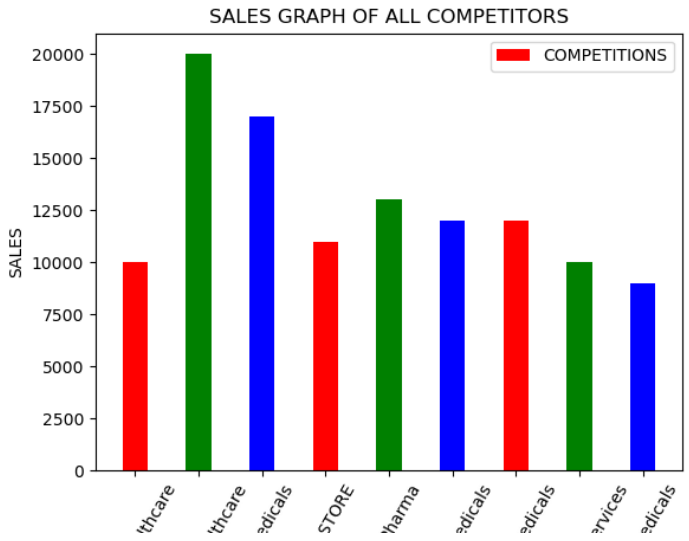


3.3.2 PROCEEDING WITH THE DEFAULT VALUE

3.3.2.1 VIEW ALL COMPETITIONS

SL.NO	COMPETITION
1 .	Welfer Healthcare
2 .	Hospimed Healthcare
3 .	City Medicals
4 .	Aster Pharma
5 .	National Medicals
6 .	Aarogya Medicals
7 .	LuLu Medical Services
8 .	Renai Medicals

3.3.2.2 GRAPHICALLY VIEW MY COMPETITIONS



3.4 VIEW RANKING AND THE SELLER'S POSITION

RANK	SELLER
1	DC Medicals
2	Clarvoint Biogenies
3	Care Pharama
4	Kariath Medicals
5	The Galaxy Pharma
6	MTH Pharma
7	Healthilfe Medicals
8	Medrely -Chemists and Druggists
9	Medlife Pharma
10	The Apple Medical Store
11	Hospimed Healthcare
12	City Medicals
13	Aster Pharma
14	Aarogya Medicals
15	National Medicals
16	MG PHARMACY
17	LuLu Medical Services
18	Welfer Healthcare
19	Renai Medicals

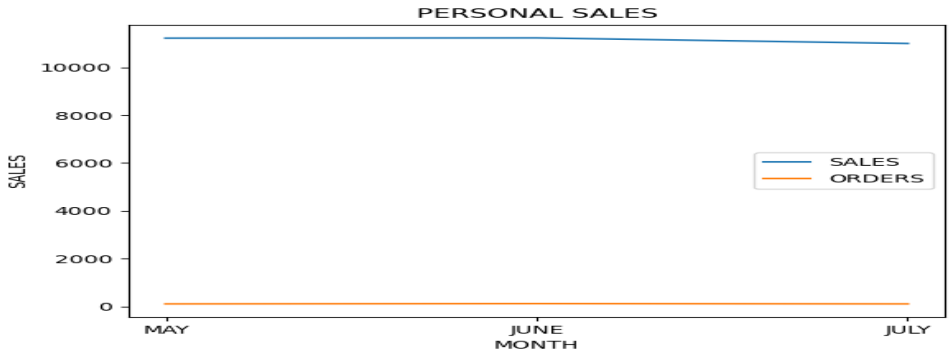
CONGRATS YOU ARE IN THE 16 th position

3.5 VIEW PERSONAL PROFILE

1.SEE MY GROWTH
2.SEE MY MONTHLY SALES DISTRIBUTION
ENTER YOUR CHOICE:

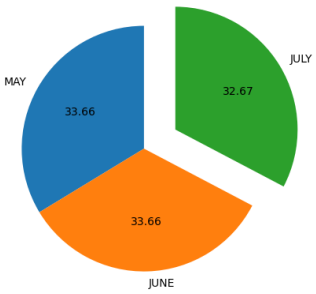
3.5.1 VIEW THE SELLER'S GROWTH

NOTE: THE USER CAN NOW VIEW THE LINE GRAPH WITH ORDERS AND SALES



3.5.2 VIEW MONTHLY SALES DISTRIBUTION FOR THW LAST 3 MONTHS

NOTE: THE USER CAN NOW VIEW THE PIE PLOT OF THE



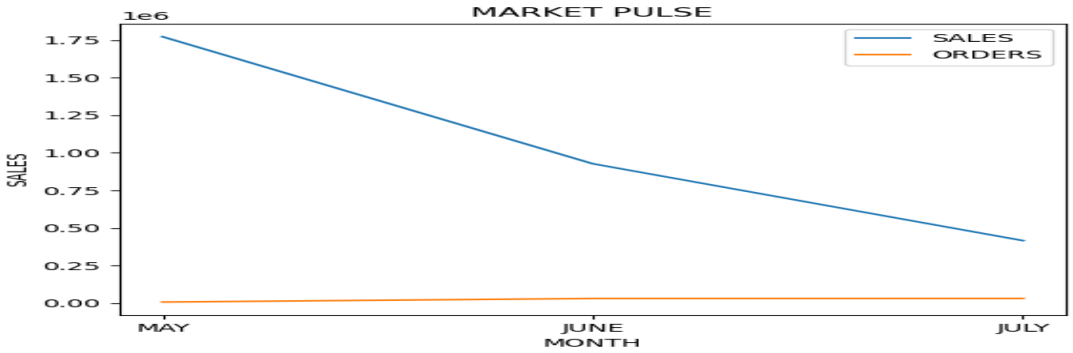
LAST MONTH'S SALES

3.6 VIEW PROJECTED SALES FOR THE NEXT MONTH

DEAR MG PHARMACY YOUR PROJECTED SALES FOR THE NEXT MONTH IS 11223

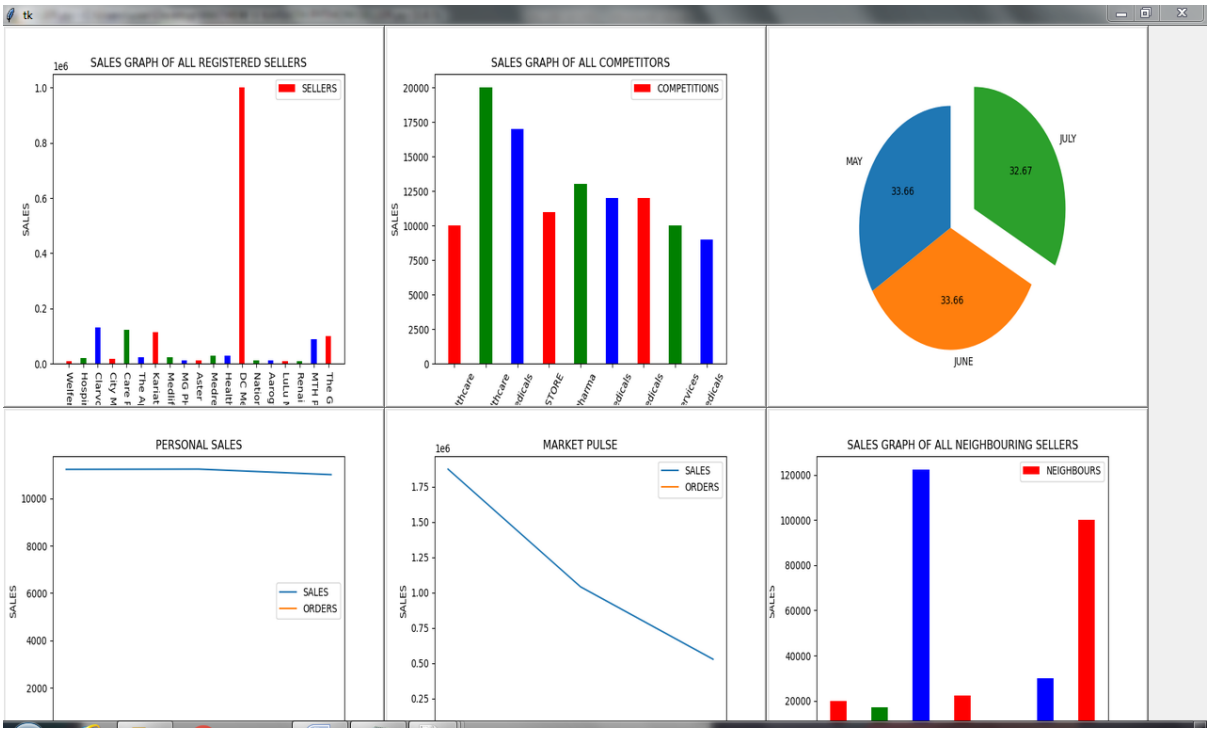
3.7 VIEW MARKET PULSE

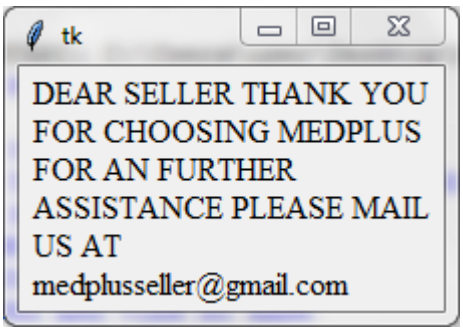
NOTE:GIVES A GENERAL IDEA ABOUT THE SALES AND ORDERS IN THE MARKET FOR THE PAST 3 MONTHS



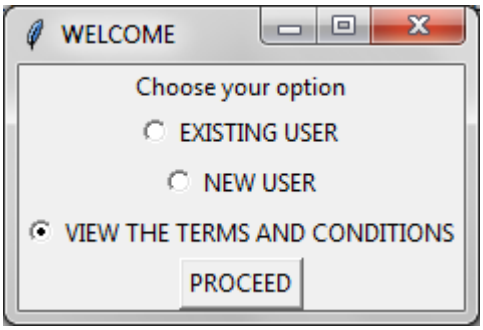
4.CLOSING

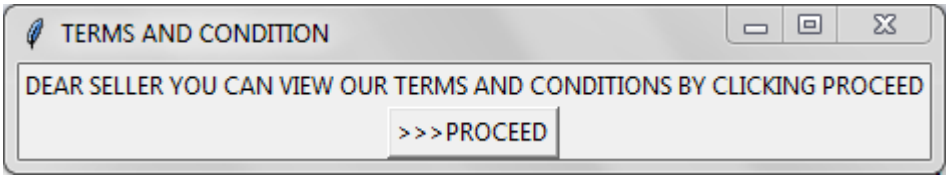
DISPLAY ALL THE GRAPH GENERATED IN A SINGLE WINDOW

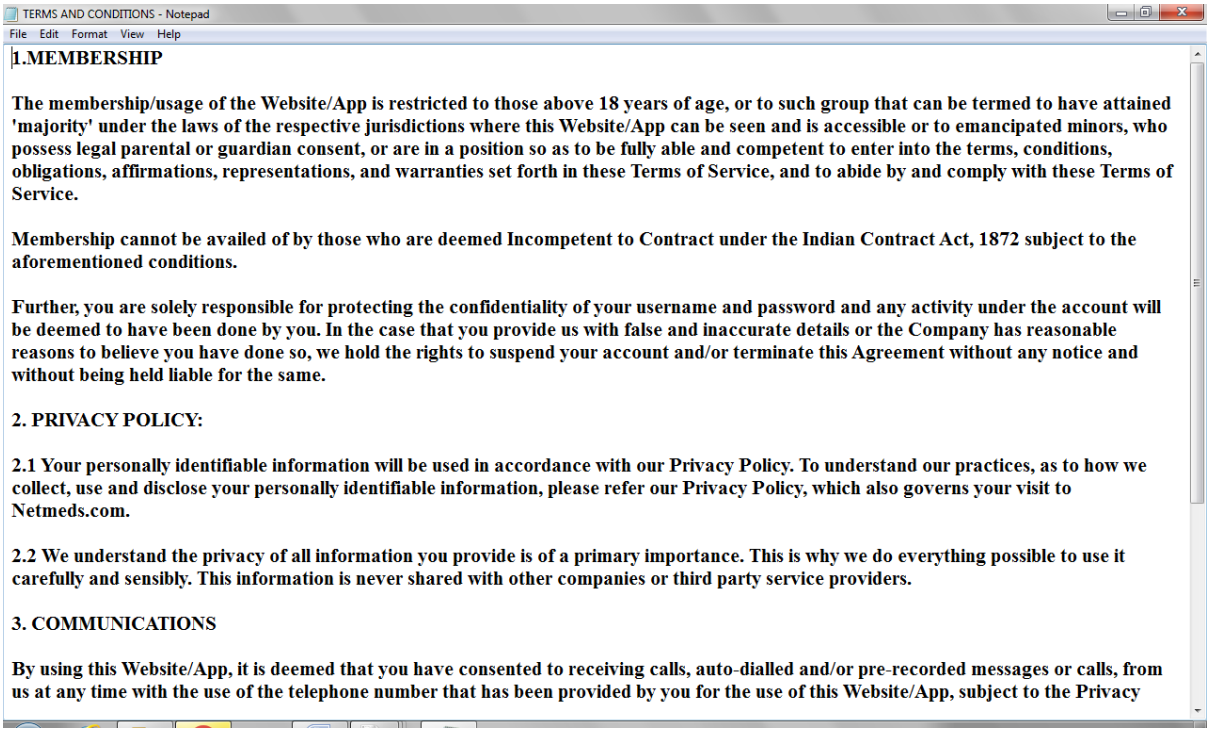




5.TERMS AND CONDITIONS







THANK YOU FOR SHOPPING WITH MEDPLUS