MINI PROJECT

PROJECT TITLE:-

Canteen Billing System

Description:-

The Canteen Billing System In Python is a GUI project using python Tkinter which displays the menu of the hotel, takes orders from the customer, and generates a bill.This is a Simple GUI based application which is very easy to understand and use.It uses the Tkinter module for the GUI.The customer can see the required items in the menu card .The customer can address the order then the bill counter person just has to select the food items ,enter the quantity and click the “Bill Reciept” button to view the total price and when he click “Print” button then it will print bill reciept.

Approach used :-

Firstly we installed python3 IDLE to create our project.Then we created a new file in IDLE and then started doing our project.

We have imported tkinter package to create tk window.And then we created a Label for title of the project i.e “SRIT CANTEEN”.

After that we placed a menu card at the right side of theTk Window so that a customer can see the items and their respective prices.Then we created items as labels and we placed entry boxes for selecting number of items at respective positions of the items.

After that we created a label for customer details and in that we created customer name and customer mobile number labels and we placed respective entry boxes at respective position of customer details to get Customer information for billing receipt.

After that we placed Buttons to perform some operations :-

Buttons

1.”BILL RECIEPT”----------->for generating bill

2.”RESET”----------->to reset the previously entered data

3.”PRINT”----------->to print the bill reciept

4.”EXIT”----------->to destroy the tk window

And then we created a combo box for payment,for this combo box we import ttk module From tkinter package.To the combo box we added payment options {Cash,Google pay,Phone pay,Paytm}.and we bind the events with payment function.If we

click any one of the Option in the combo box then it will show the respective message for the selecting option.For showing message we imported all modules from message

Then we created a “Bill Receipt” area. To that we added a label “Bill Receipt”and we added Label “Welcome To SRIT CAFETERIA”.we added a text area to the bill receipt. In that text area actual information of the bill will display.and also we added data and time to the text area by importing datetime module.we also added scroll bar to the text area.

When we click on print button it will save the total content present in the Bill Receipt as a temporary textfile.And from that textfile we can print the Reciept.For that we imported Os module and temp file temp file module.

Source Code: -

```
from tkinter import*
from tkinter.messagebox import*
from tkinter import ttk
import tempfile
import os
import datetime

wn=Tk()
wn.geometry("1300x740")
wn.title("MINI PROJECT")

amount=0

#date and time
now=datetime.datetime.now()
a=now.strftime("%d-%m-%y")
b=now.strftime("%H:%M:%S")

#---------------title---------------

title=Label(wn,text="SRIT CANTEEN",bg="orange",fg="black",font="times 40 bold")#label
for name of canteen
title.pack(fill=X)

#-----------  Generating Bill Reciept --------
def bill():
    B=e1.get()  # retrieving the text wt u hv entered in entry box in string format
    F=e2.get()
    E=e3.get()
    G=e4.get()
    M=e5.get()
    P=e6.get()
    if B==""or F==""or E==""or G=="" or M=="" or P=="" or u1.get()=="" or u2.get() == "":
        showwarning("Warning","PLEASE DON'T LEFT THE ENTRY'S BLANK")
        #messagebox showing warning not to left the entrys blank
    else:
        amount=(int(B)*55+int(F)*50+int(E)*45+int(G)*50+int(M)*60+int(P)*40
        )# calculating total amount
        Tot_items = int(B)+int(F)+int(E)+int(G)+int(M)+int(P)
        textarea.delete(1.0,END)  # deleting the previous inserted text entirely
        textarea.insert(END,f'\n    \t        SRIT CANTEEN ')
        textarea.insert(END,"\n")
        textarea.insert(END,f"\nDate :-  {a}        \nTime :-  {b}")
        textarea.insert(END,f"\nCustomer_Name     :-  {u1.get()}")
        textarea.insert(END,f"\nMob_No\t\t :-  {u2.get()}")
        textarea.insert(END,'\n')
```

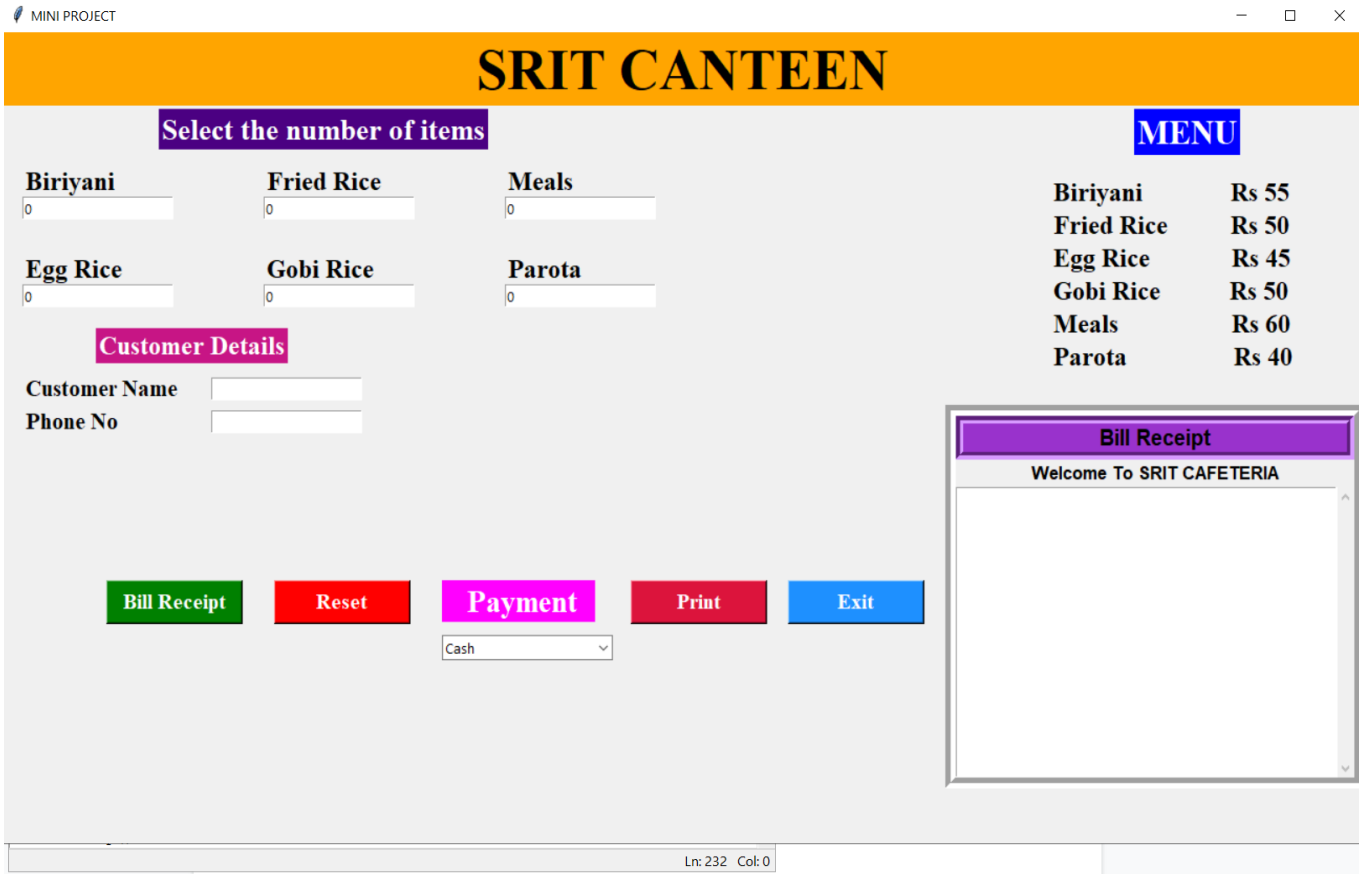
```
        textarea.insert(END,f'\n    Items\t        No of Items\t      Price')
        textarea.insert(END,f'\n\n Biriyani\t\t {e1.get()} \t     {int(B)*55}')
        textarea.insert(END,f'\n Fried Rice\t\t {e2.get()} \t     {int(F)*50}')
        textarea.insert(END,f'\n Egg Rice\t\t {e3.get()} \t     {int(E)*45}')
        textarea.insert(END,f'\n Gobi Rice\t\t {e4.get()} \t     {int(G)*50}')
        textarea.insert(END,f'\n Meals  \t\t {e5.get()} \t     {int(M)*60}')
        textarea.insert(END,f'\n Parota  \t\t {e6.get()} \t     {int(P)*40}')
        textarea.insert(END,f'\n\n=======================================')
        textarea.insert(END,f'\n Total     \t\t {Tot_items}\t   Rs{amount}')
        textarea.insert(END,f'\n=======================================')


#-------- reset  ---------------
def clear():
    L=[e1,e2,e3,e4,e5,e6]
    for i in L:
        i.delete(0,"end")    # deleting the text wt u hv entered in entry boxes
    u1.delete(0,"end")       # deleting the customer name
    u2.delete(0,"end")       # deleting the phone number
    textarea.delete(1.0,END) # deleting the  previously generated bill reciept
    p.current(0)
    e1.insert(0,0)
    e2.insert(0,0)
    e3.insert(0,0)
    e4.insert(0,0)
    e5.insert(0,0)
    e6.insert(0,0)



#---------- Payment -----
def payment(self):
    B=e1.get()  # retrieving the text wt u hv entered in entry box in string format
    F=e2.get()
    E=e3.get()
    G=e4.get()
    M=e5.get()
    P=e6.get()
    amount=(int(B)*55+int(F)*50+int(E)*45+int(G)*50+int(M)*60+int(P)*40)
    msg=f'you can pay {amount} rupees through {p.get()}'
    if p.get()=="Cash":
        showinfo('Payment',msg)

    else:
        showinfo("Payment",f"You can {p.get()} {amount} rupees to these
number\n\n9347858073   or\t9398354978")


#--------------print-----------------
```

```
def print():
    receipt=textarea.get(1.0,END)
    filename=tempfile.mktemp(".txt")
    open(filename,"w").write(receipt)
    os.startfile(filename,"Print")


#-----------------customer details--------------------
t1=Label(wn,text="Customer Details",bg="mediumvioletred",fg="white",font="times 18
bold")
t1.place(x=90,y=270)
t2=Label(wn,text="Customer Name",font="times 16 bold")
t2.place(x=20,y=310)

u1=Entry(wn)
u1.place(x=200,y=315)

t3=Label(wn,text="Phone No",font="times 16 bold")
t3.place(x=20,y=340)

u2=Entry(wn)
u2.place(x=200,y=345)


#---------------- bill receipt area-----


f1=Frame(wn,relief=GROOVE,bd=10)  # adding frame to the Tk window
f1.place(x=900,y=340,width=400,height=350)
br=Label(f1,text="Bill Receipt",font='arial 15
bold',bg="darkorchid",bd=7,relief=GROOVE).pack(fill=X)
br2=Label(f1,text="Welcome To SRIT CAFETERIA",font="arial 13 bold").pack()
scrol=Scrollbar(f1,orient=VERTICAL)  #adding Scrollbar to the frame
scrol.pack(side=RIGHT,fill=Y)


textarea=Text(f1,font='arial 12 bold',yscrollcommand=scrol.set) # adding Text area to the
frame
textarea.pack(fill=BOTH)
scrol.config(command=textarea.yview)


#---------------- Menu Card-----------

l1=Label(wn,text="MENU",font="times 23 bold",bg="blue",fg="white")
l1.place(x=1080,y=70)

l2=Label(wn,text="Biriyani            Rs 55",font="times 18 bold")
l2.place(x=1000,y=130)
```

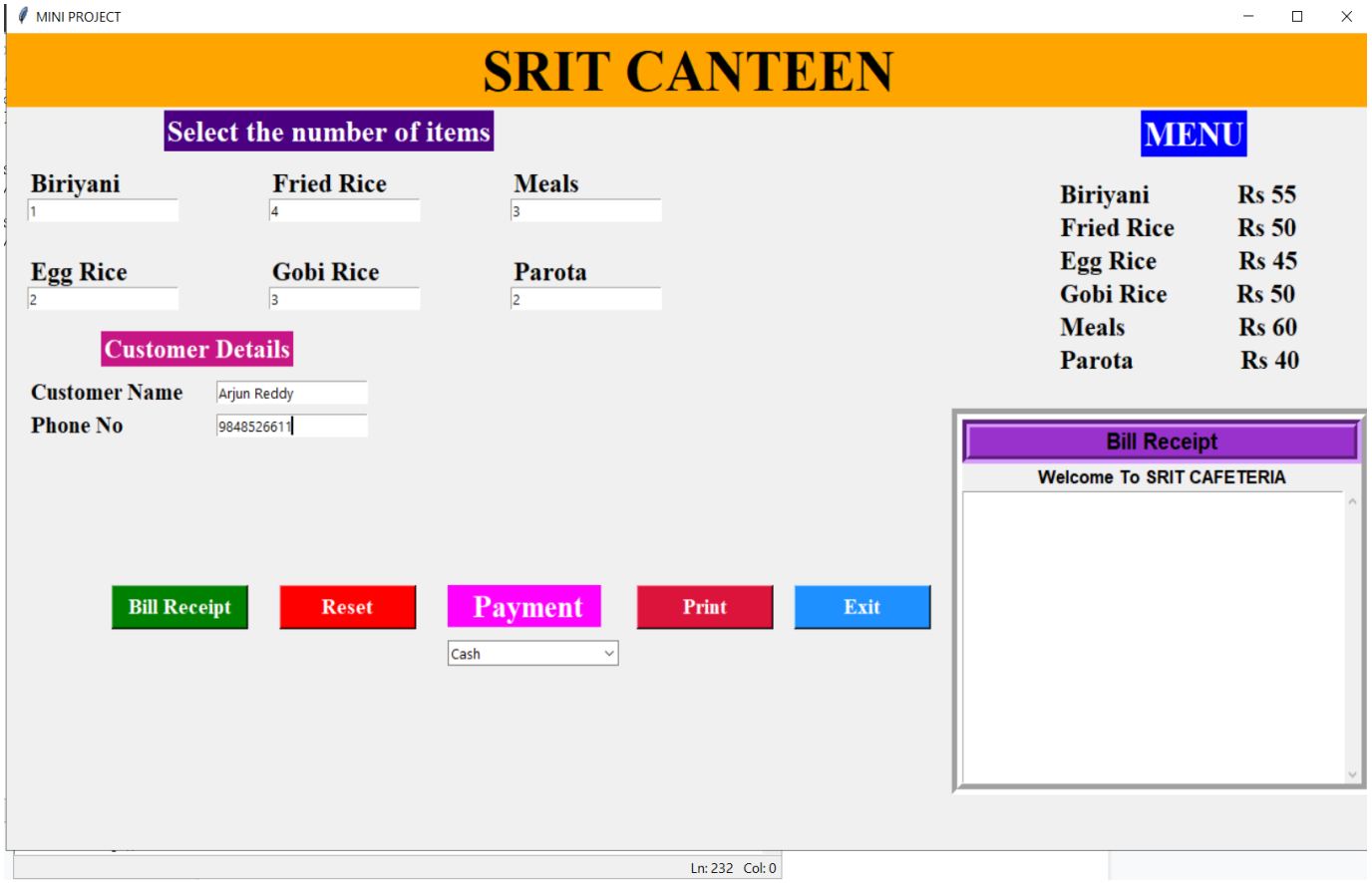
```
l3=Label(wn,text="Fried Rice          Rs 50",font="times 18 bold")
l3.place(x=1000,y=160)
l4=Label(wn,text="Egg Rice           Rs 45",font="times 18 bold")
l4.place(x=1000,y=190)
l5=Label(wn,text="Gobi Rice          Rs 50",font="times 18 bold")
l5.place(x=1000,y=220)
l6=Label(wn,text="Meals              Rs 60",font="times 18 bold")
l6.place(x=1000,y=250)
l7=Label(wn,text="Parota             Rs 40",font="times 18 bold")
l7.place(x=1000,y=280)

#----- selection of items----------


l8=Label(wn,text="Select the number of items",bg="indigo",fg="white",font="times 20
bold")
l8.place(x=150,y=70)

l9=Label(wn,text="Biriyani",font="times 18 bold")
l9.place(x=20,y=120)

e1=Entry(wn)
e1.place(x=20,y=150)
e1.insert(0,0)


l10=Label(wn,text="Fried Rice",font="times 18 bold")
l10.place(x=250,y=120)

e2=Entry(wn)
e2.place(x=250,y=150)
e2.insert(0,0)


l11=Label(wn,text="Egg Rice",font="times 18 bold")
l11.place(x=20,y=200)

e3=Entry(wn)
e3.place(x=20,y=230)
e3.insert(0,0)

l12=Label(wn,text="Gobi Rice",font="times 18 bold")
l12.place(x=250,y=200)


e4=Entry(wn)
e4.place(x=250,y=230)
e4.insert(0,0)
```

```
l13=Label(wn,text="Meals",font="times 18 bold")
l13.place(x=480,y=120)

e5=Entry(wn)
e5.place(x=480,y=150)
e5.insert(0,0)

l14=Label(wn,text="Parota",font="times 18 bold")
l14.place(x=480,y=200)

e6=Entry(wn)
e6.place(x=480,y=230)
e6.insert(0,0)



#---------- Buttons----------

b1=Button(wn,text="Bill Receipt",width=10,bg="green",fg="white",font="times 15
bold",command=bill) #for generating bill reciept
b1.place(x=100,y=500)

b2=Button(wn,text="Reset",width=10,bg="red",fg="white",font="times 15
bold",command=clear) # to reset the previously entered data
b2.place(x=260,y=500)

b3=Button(wn,text="Print",width=10,bg="crimson",fg="white",font="times 15
bold",command=print) # to print the bill receipt
b3.place(x=600,y=500)

b4=Button(wn,text="Exit",width=10,bg="dodgerblue",fg="white",font="times 15
bold",command=wn.destroy) # to destroy the tk window
b4.place(x=750,y=500)


#----------Combobox----------
l=Label(wn,text="   Payment  ",font="times 21 bold",fg="white",bg="magenta")
l.place(x=420,y=500)

n=StringVar()
p=ttk.Combobox(wn,width=20,textvariable=n)
p["values"]=("Cash","Google Pay","Paytm","Phone Pay")
p.place(x=420,y=550)
p.current(0)
p.bind('<<ComboboxSelected>>',payment) #binding the event with function


wn.mainloop()
```

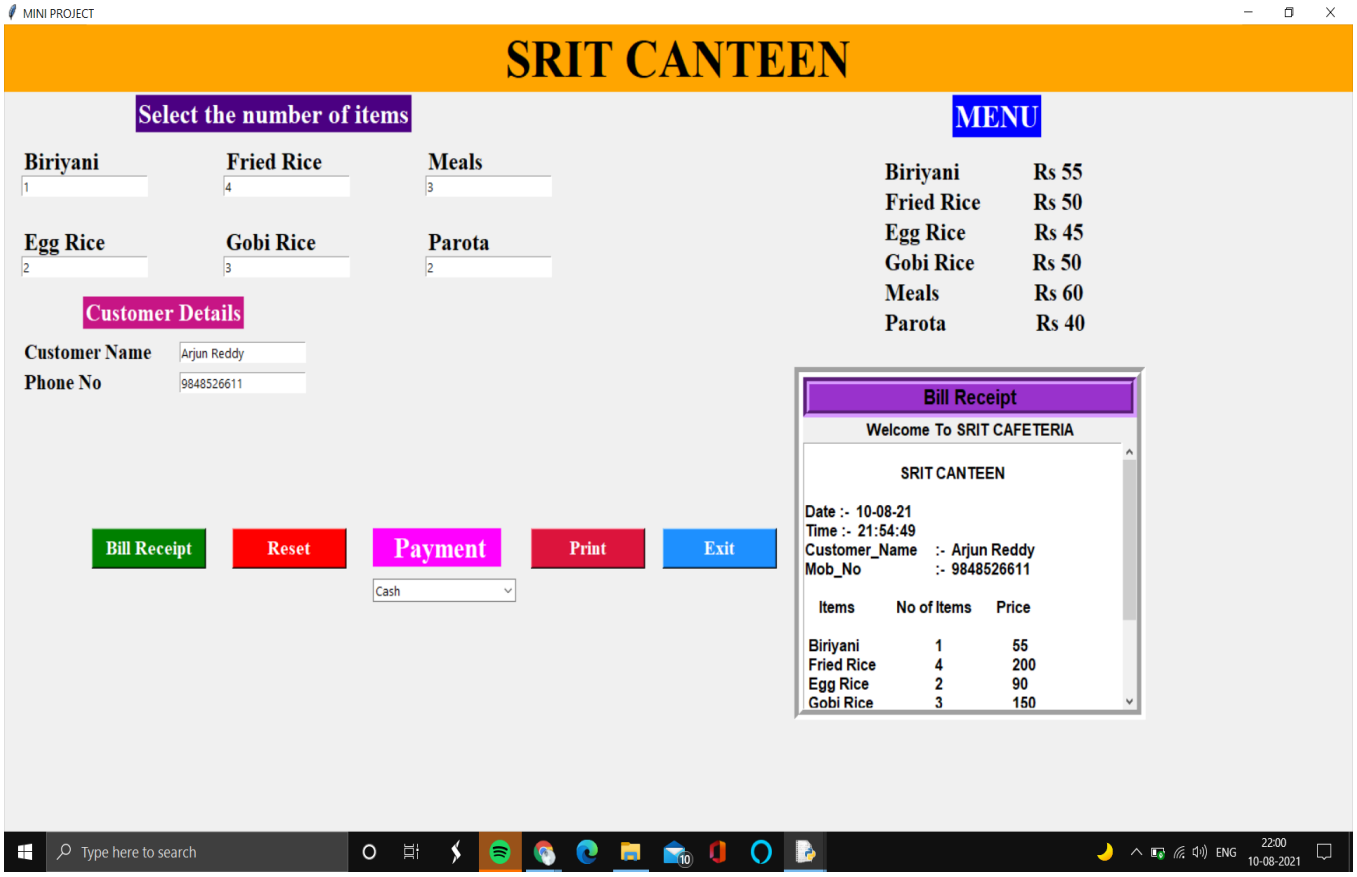
Output :-

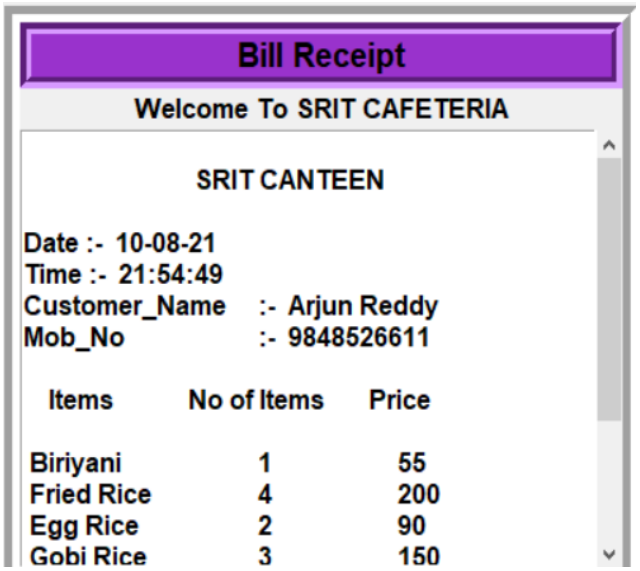


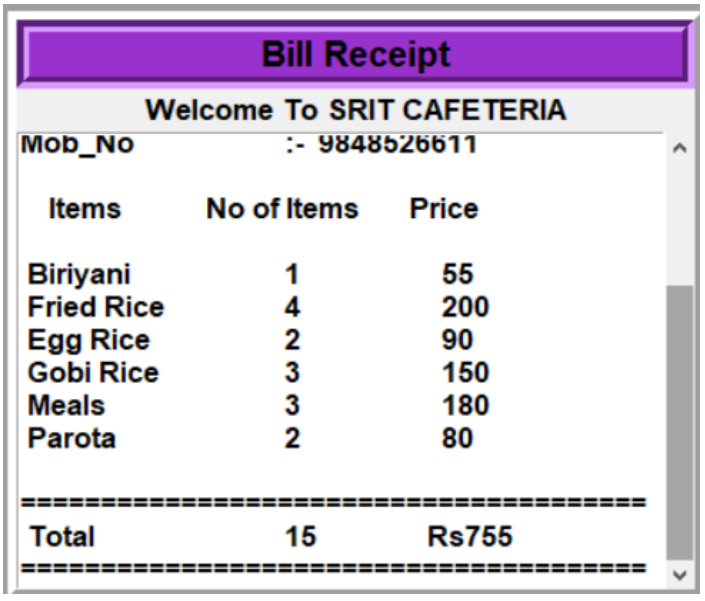
After filling details :-



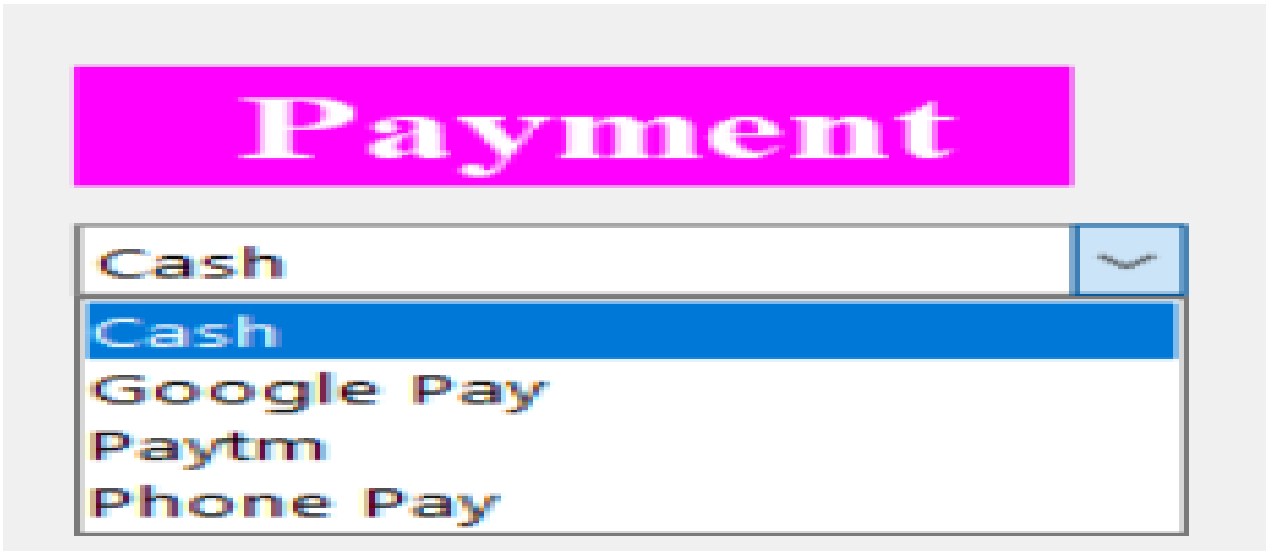
Bill Reciept :-



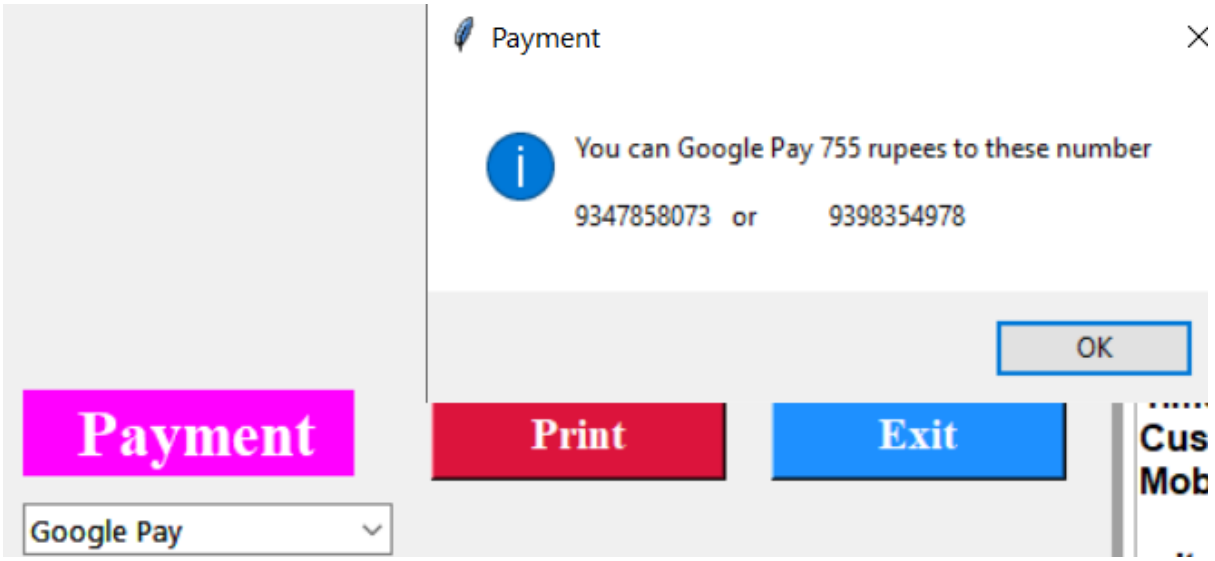




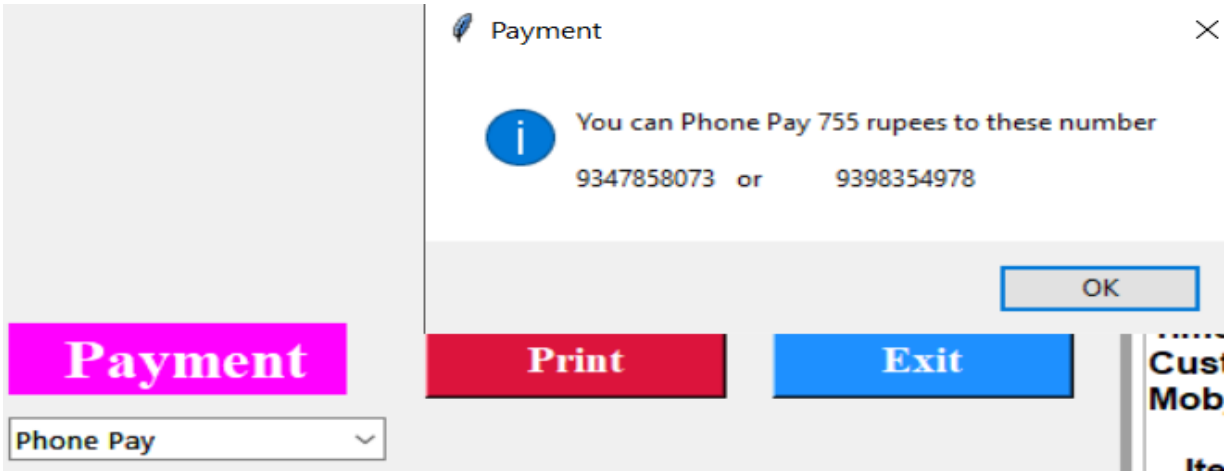
Payment :-



On clicking Google pay :-



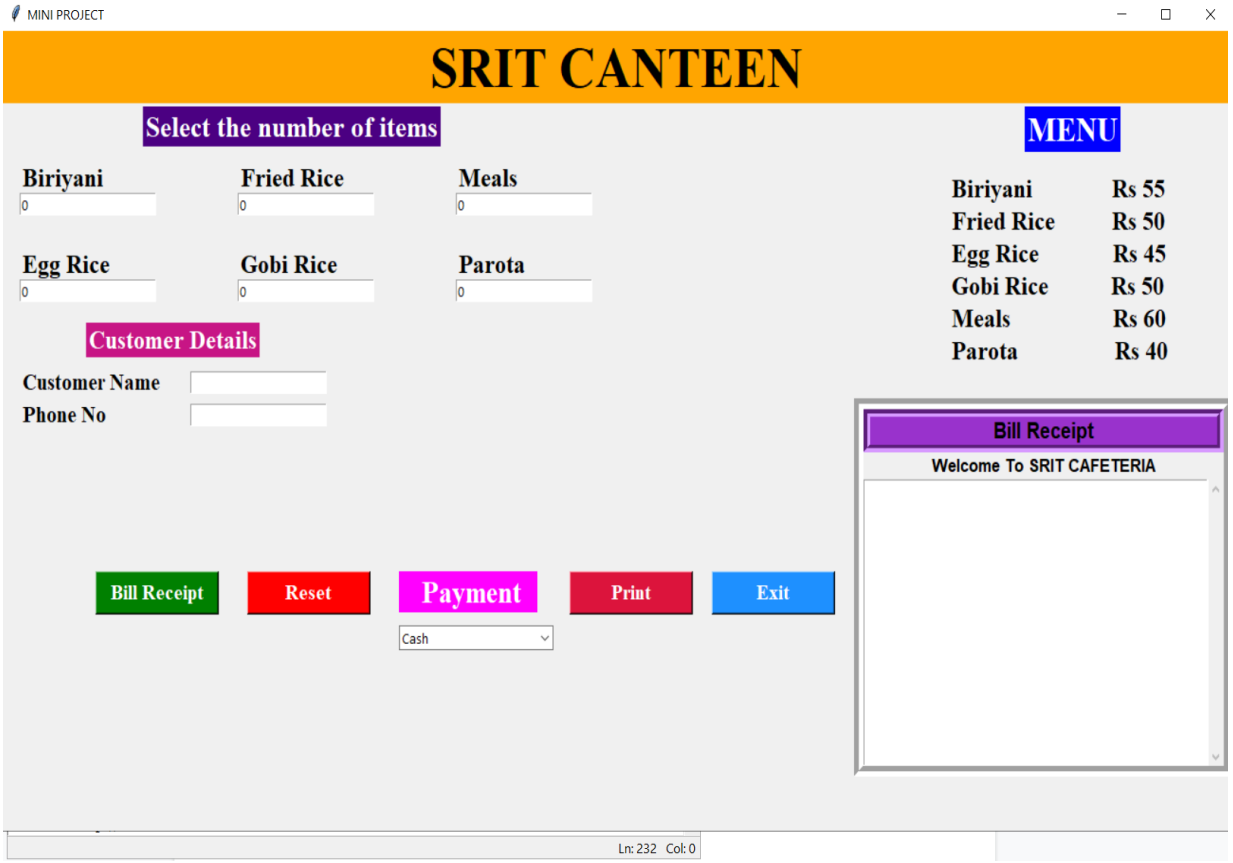
On clicking phone pay :-



Print :-

```
                    SRIT CANTEEN

Date :-  10-08-21
Time :-  22:14:38
Customer_Name      :-  Arjun Reddy
Mob_No             :-  9848586878

    Items                No of Items           Price

 Biriyani                  1              55
 Fried Rice                4              200
 Egg Rice                  2              90
 Gobi Rice                 3              150
 Meals                     3              180
 Parota                    2              80

=======================================
 Total                     15          Rs755
=======================================
```

Reset :-



Conclusion:

Hence we have developed billing system for canteen by using python Tkinter module