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

I have imported tkinter package to create tk window.And then I created a Label for title of the project i.e "SRIT CANTEEN".

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

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

After that I 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 I created a combo box for payment,for this combo box I

import tk module from tkinter package.To the combo box we added payment options {Cash,Google pay,Phone pay,Paytm}.and I bind the events with payment function.If I click any one of the Option in the combo box then it will show the respective message for the selecting option.For showing message I imported all modules from message

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

When I click on print button it will save the total content present in the Bill Receipt as a temporary textfile.And from that textfile I can print the Reciept.For that I 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}')
```

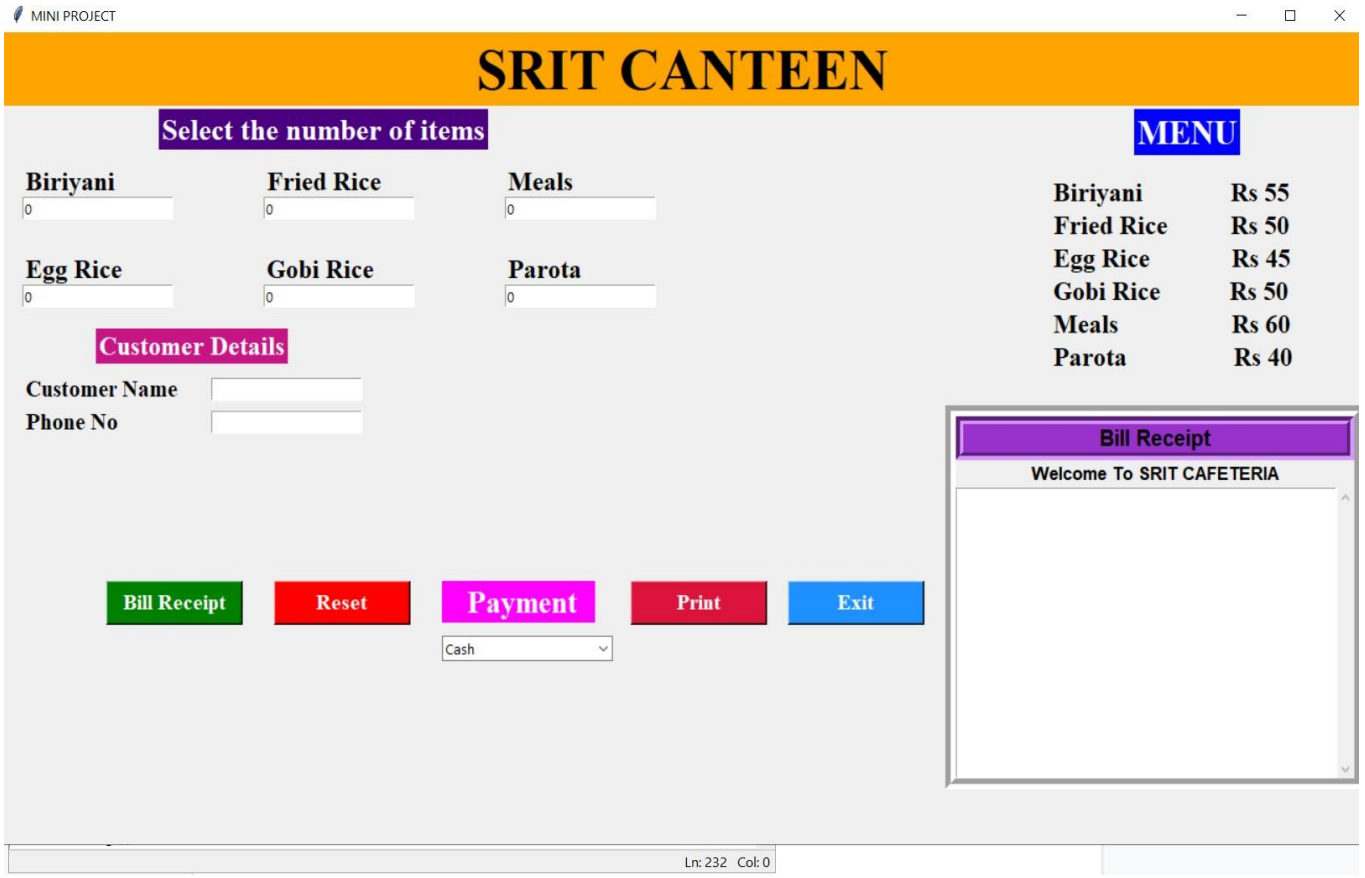
```
        textarea.insert(END,f'\n Egg Rice\t\t {e3.get()} \t     {int(E)*45}')
        textarea.insert(END,f'\n Gobi Rice\t\t {e4.get()} \t     {int(G)*50}')
        textarea.insert(END,f'\n Meals  \t\t {e5.get()} \t     {int(M)*60}')
        textarea.insert(END,f'\n Parota  \t\t {e6.get()} \t     {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----------
```

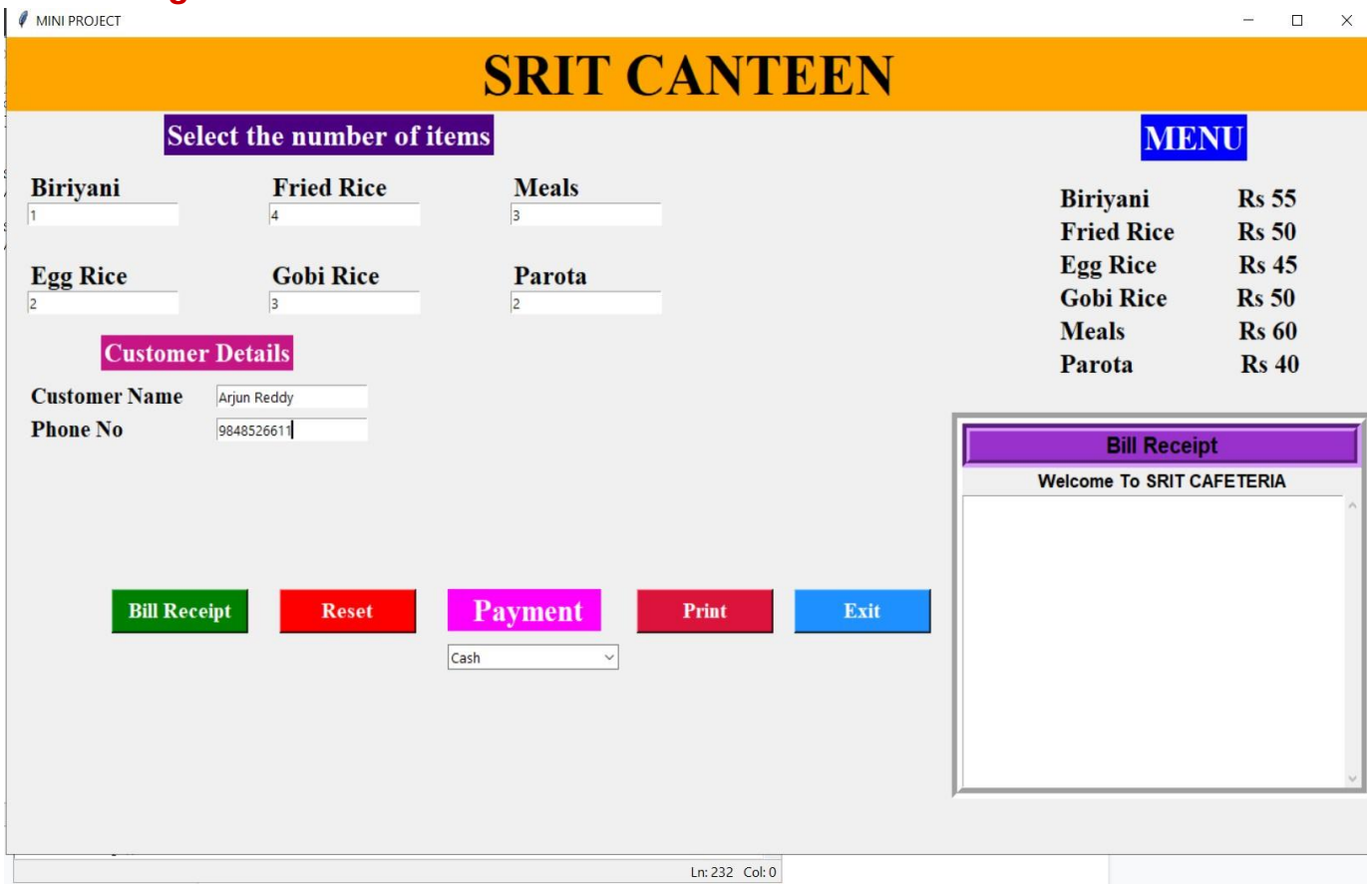
```
l8=Label(wn,text="Select the number of items",bg="indigo",fg="white",font="times 20
bold") l8.place(x=150,y=70)

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="ti
mes 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()
```

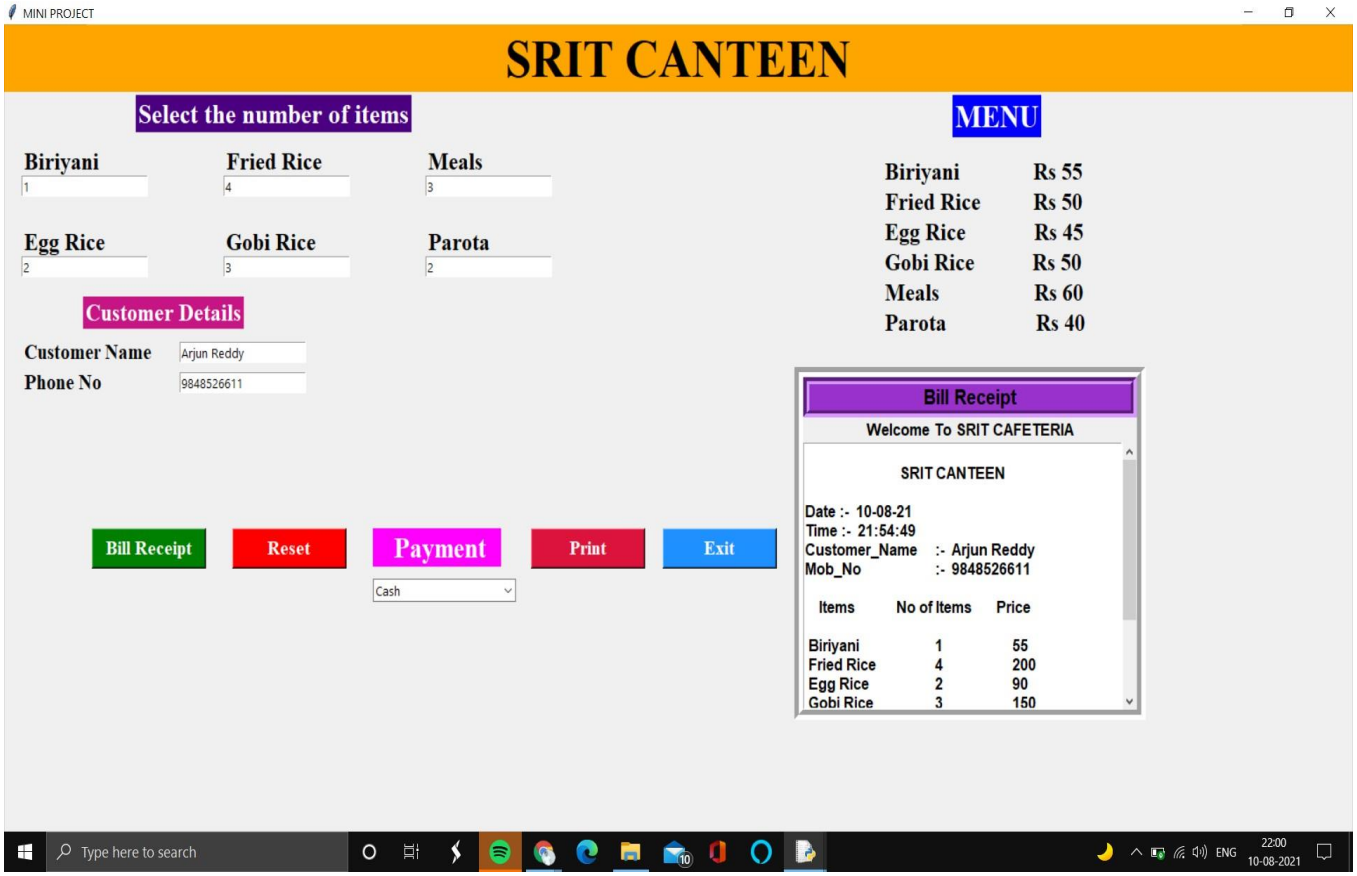
Output :-

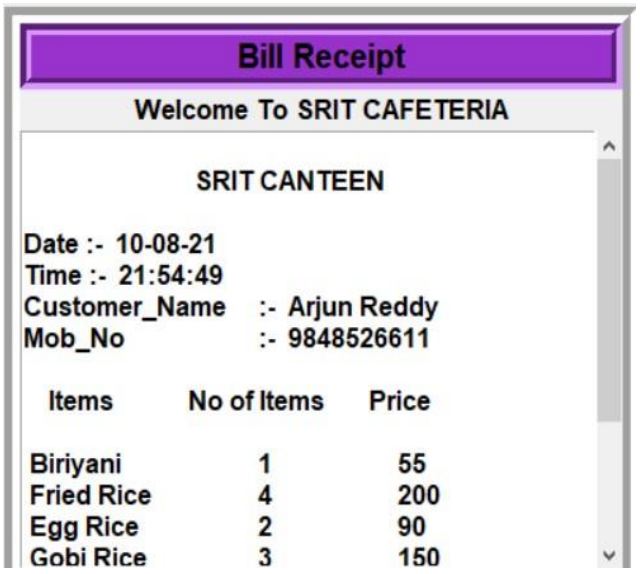


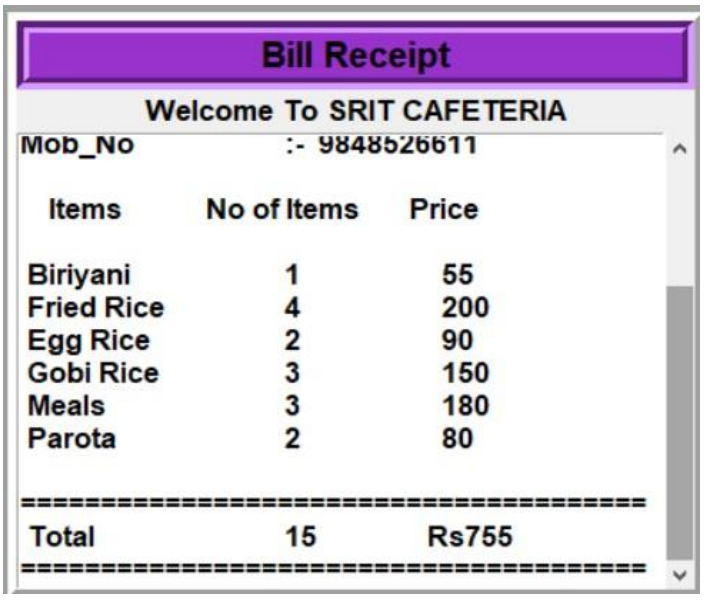
After filling details :-



Bill Reciept :-

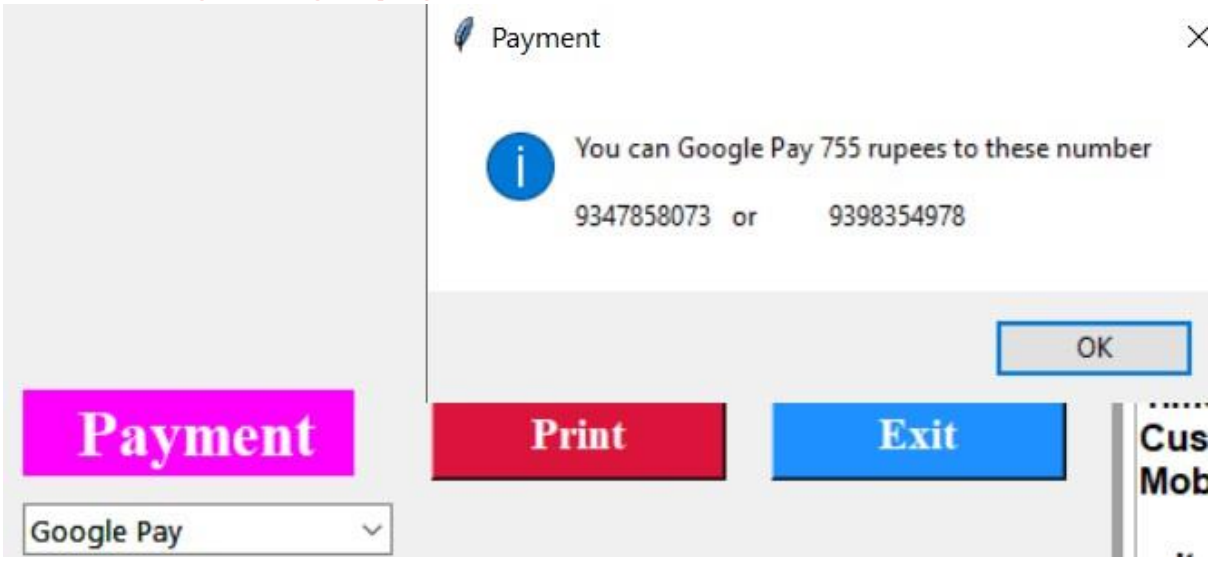

MINI PROJECT
SRIT CANTEEN
Select the number of items
Biriyani
1
Fried Rice
4
Meals
3
Egg Rice
2
Gobi Rice
3
Parota
2
Customer Details
Customer Name
Arjun Reddy
Phone No
9848526611
MENU
Biriyani Rs 55
Fried Rice Rs 50
Egg Rice Rs 45
Gobi Rice Rs 50
Meals Rs 60
Parota Rs 40
Bill Receipt
Reset
Payment
Print
Exit
Cash
Bill Receipt
Welcome To SRIT CAFETERIA
SRIT CANTEEN
Date :- 10-08-21
Time :- 21:54:49
Customer_Name :- Arjun Reddy
Mob_No :- 9848526611
Items No of Items Price
Biriyani 1 55
Fried Rice 4 200
Egg Rice 2 90
Gobi Rice 3 150
Type here to search
ENG
22:00
10-08-2021


Bill Receipt
Welcome To SRIT CAFETERIA
SRIT CANTEEN
Date :- 10-08-21
Time :- 21:54:49
Customer_Name :- Arjun Reddy
Mob_No :- 9848526611
Items No of Items Price
Biriyani 1 55
Fried Rice 4 200
Egg Rice 2 90
Gobi Rice 3 150

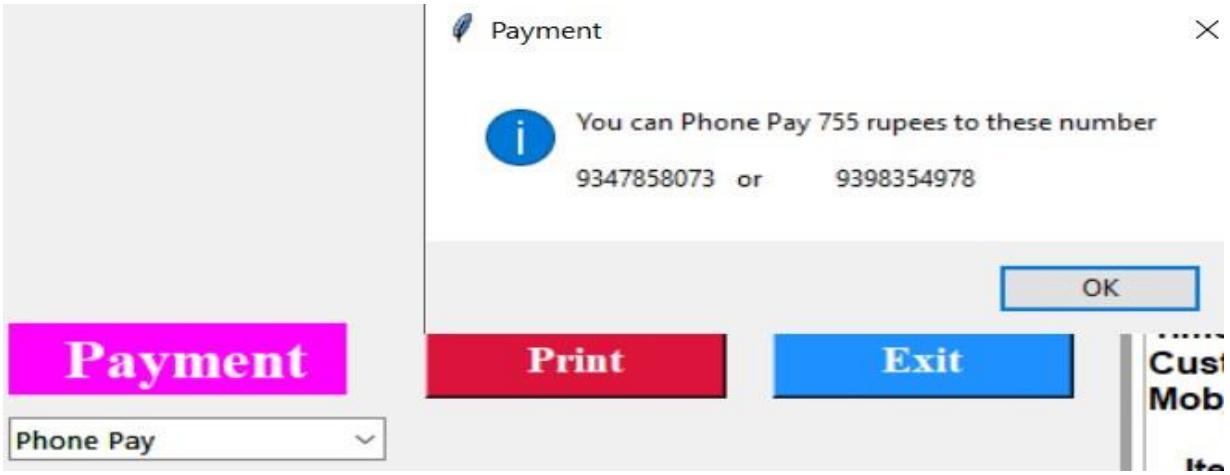

Bill Receipt
Welcome To SRIT CAFETERIA
Mob_No :- 9848526611
Items No of Items Price
Biriyani 1 55
Fried Rice 4 200
Egg Rice 2 90
Gobi Rice 3 150
Meals 3 180
Parota 2 80
Total 15 Rs755

Payment :-

On clicking Google pay :-



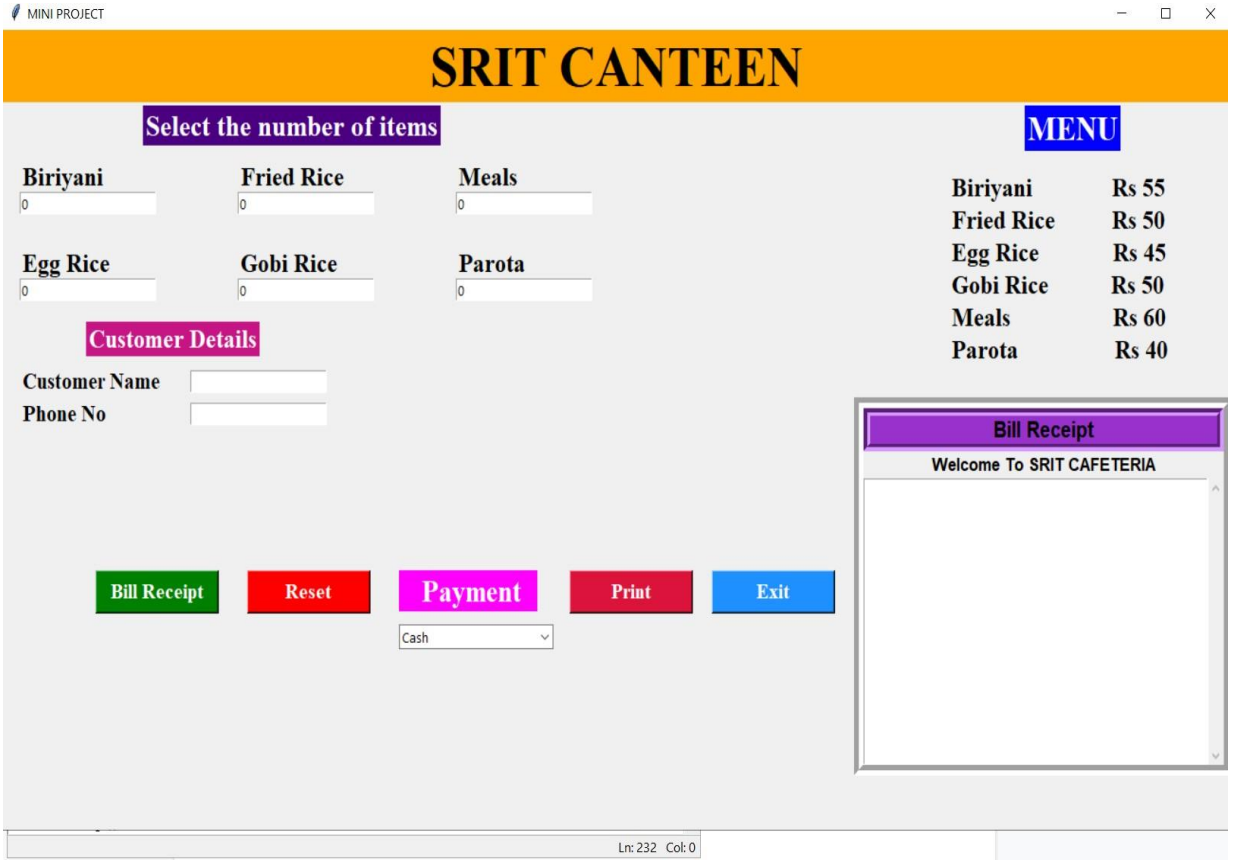
On clicking phone pay :-



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