Objectives of project

To create a program that produces the bill of the plants that are sold by the seller in a user friendly graphical interface.

Function description

- **buyrose** Initiate a dialog box to enter the quantity of rose that seller selects and add the rose into the bill with its respective quantity
- **buysunflower** Generate a dialog box that accepts the quantity of sunflower that seller selects and add the sunflower plant into the bill with its respective quantity
- **buyjasmine** Pops a selection box to enter the number of jasmine plant that seller selects and add the jasmine plant into the bill with its respective quantity
- **buyaloevera** Generate a dialog box that accepts the number of aloevera that seller selects and add the aloevera plant into the bill with its respective quantity.
- **buymoneyplant** Opens a selection box to take the amount of moneyplant that seller selects and add the moneyplant into the bill with its respective quantity
- **buyjade** Initiate a dialog box to enter the quantity of jade that seller selects and add the jade into the bill with its respective quantity
- **buyadenium** Generate a dialog box that accepts the quantity of adenium plant that seller selects and add the sunflower plant into the bill with its respective quantity
- **buycactus** Pops a selection box to enter the number of cactus plant that seller selects and add the cactus plant into the bill with its respective quantity
- **buypalm** Initiate a dialog box to enter the quantity of palm that seller selects and add the palm into the bill with its respective quantity
- **gotoflower** Open up another window that contains different varieties of plant in the same domain. It will open up the flower category
- **gotodecoration**This function open up another window that contains different varieties of plant in the same domain. It will open up the category of plant that are usually used for decoration
- **gotodesert** The plants that belong to the desert are selected by this function. It will pop up a window that contains desert plants.
- **billf** Generates the bill of the plants that are sold with the respective quantity, and the total amount corresponding to various plants. It also gives the total amount the buyer has to pay
- **billf** Sort the bill in aplhabetic manner with respect to the plants name.
- **change...** Change the quantity of the plants to include in the bill. change... indicates function starts with change
- **...price_change** Change the price of the plants to include in the bill. ...price_chane indicates function that changes the price of plants.
- **sort_list** Sorts the list into ascending order.
- **print_bill** Generates the pdf of the required invoice.
- **main** It is the runner of the code. It initializes the program.

PROGRAM CODE

```
## import tkinter for GUI support
import tkinter

## importing simpledialog and message box exclusively for simpler use
from tkinter import simpledialog, messagebox

## module for profiling
import cProfile

# module for reading profiled data
import pstats
from pstats import SortKey

# importing for generationg invoice
import os
from InvoiceGenerator.api import Invoice, Item, Client, Provider, Creator
from InvoiceGenerator.pdf import SimpleInvoice


## dictionary to keep the quantity of each plant sold
quantity_dictionary = dict()

## dictionary that keep track of plants price
price_dictionary = {"rose":50, "sunflower":40, "jasmine":60, "aloevera":50,
                    "moneyplant":40, "jade":60, "adenium":100, "cactus":300,
                    "palm":200}


## method to sell the plants
def buyrose():
    rose_simple_dialog_box = simpledialog.askinteger("Rose", "Qty.")
    quantity_dictionary["rose"] = rose_simple_dialog_box

## method to sell the plants
def buysunflower():
    sunflower_simple_dialog_box = simpledialog.askinteger("Sunflower", "Qty.")
    quantity_dictionary["sunflower"] = sunflower_simple_dialog_box

## method to sell the plants
def buyjasmine():
    jasmine_simple_dialog_box = simpledialog.askinteger("Jasmine", "Qty.")
    quantity_dictionary["jasmine"] = jasmine_simple_dialog_box

## method to sell the plants
def buyaloevera():
    aloevera_simple_dialog_box = simpledialog.askinteger("Aloe␣Vera", "Qty.")
    quantity_dictionary["aloevera"] = aloevera_simple_dialog_box

## method to sell the plants
def buymoneyplant():
    moneyplant_simple_dialog_box = simpledialog.askinteger("Money␣Plant",
                                                           "Qty.")
    quantity_dictionary["moneyplant"] = moneyplant_simple_dialog_box
```

```
## method to sell the plants
def buyjade():
    jade_simple_dialog_box = simpledialog.askinteger("Jade", "Qty.")
    quantity_dictionary["jade"] = jade_simple_dialog_box

## method to sell the plants
def buyadenium():
    adenium_simple_dialog_box = simpledialog.askinteger("Adenium", "Qty.")
    quantity_dictionary["adenium"] = adenium_simple_dialog_box

## method to sell the plants
def buycactus():
    cactus_simple_dialog_box = simpledialog.askinteger("Cactus", "Qty.")
    quantity_dictionary["cactus"] = cactus_simple_dialog_box


# method to sell the plants
def buypalm():
    palm_simple_dialog_box = simpledialog.askinteger("Palm", "Qty.")
    quantity_dictionary["palm"] = palm_simple_dialog_box


# methods to remove the sold plant from the list
def changerose():
    if "rose" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("Rose", "Qty.")
        quantity_dictionary["rose"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")


# methods to remove the sold plant from the list
def changesunflower():
    if "sunflower" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("sunflower", "Qty.")
        quantity_dictionary["sunflower"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changejasmine():
    if "jasmine" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("Jasmine", "Qty.")
        quantity_dictionary["jasmine"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changealoevera():
    if "aloevera" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("Aloevera", "Qty.")
        quantity_dictionary["aloevera"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changemoneyplant():
    if "moneyplant" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("Moneyplant", "Qty.")
        quantity_dictionary["moneyplant"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changejade():
    if "jade" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("Jade", "Qty.")
        quantity_dictionary["jade"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changeadenium():
    if "adenium" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("adenium", "Qty.")
        quantity_dictionary["adenium"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changecactus():
    if "cactus" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("cactus", "Qty.")
        quantity_dictionary["cactus"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")

# methods to remove the sold plant from the list
def changepalm():
    if "palm" in quantity_dictionary:
        rose_simple_dialog_box = simpledialog.askinteger("palm", "Qty.")
        quantity_dictionary["palm"] = rose_simple_dialog_box
    else:
        invalidselection = messagebox.showinfo("Invalid␣option",
                                               "Your␣selection␣is␣not␣in␣bill␣")


# changes the prices of plants
def rose_price_change():
    simple_dialog_box = simpledialog.askinteger("Rose", "Price")
    price_dictionary["rose"] = simple_dialog_box

# changes the prices of plants
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def sunflower_price_change():
    simple_dialog_box = simpledialog.askinteger(”Sunflower”, ”Price”)
    price_dictionary[”sunflower”] = simple_dialog_box

# changes the prices of plants
def jasmine_price_change():
    simple_dialog_box = simpledialog.askinteger(”Jasmine”, ”Price”)
    price_dictionary[”jasmine”] = simple_dialog_box

# changes the prices of plants
def aloevera_price_change():
    simple_dialog_box = simpledialog.askinteger(”Aloevera”, ”Price”)
    price_dictionary[”aloevera”] = simple_dialog_box

# changes the prices of plants
def moneyplant_price_change():
    simple_dialog_box = simpledialog.askinteger(”Moneyplant”, ”Price”)
    price_dictionary[”moneyplant”] = simple_dialog_box

# changes the prices of plants
def jade_price_change():
    simple_dialog_box = simpledialog.askinteger(”Jade”, ”Price”)
    price_dictionary[”jade”] = simple_dialog_box

# changes the prices of plants
def adenium_price_change():
    simple_dialog_box = simpledialog.askinteger(”Adenium”, ”Price”)
    price_dictionary[”adenium”] = simple_dialog_box

# changes the prices of plants
def cactus_price_change():
    simple_dialog_box = simpledialog.askinteger(”Cactus”, ”Price”)
    price_dictionary[”cactus”] = simple_dialog_box


# changes the prices of plants
def palm_price_change():
    simple_dialog_box = simpledialog.askinteger(”palm”, ”Price”)
    price_dictionary[”palm”] = simple_dialog_box






# The given function will be assigned to the command of flower button
# Hence it will be called when button is clicked
def gotoflower():

    # Structure of the window that appears after entering the flower
    # section
    flower_window = tkinter.Toplevel()
    flower_window.title(”Flowers”)
    flower_window.config(bg = ”white”)
    flower_window.geometry(”1150x500+150+250”)
```

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flowerlabel = tkinter.Label(flower_window, text = ”Flowers”,
                            font = (”algerian”, 25),
                            image = fphoto, compound = ”left”, bg = ”white”,
                            height = 100, width = 500).grid(row = 0, column = 0,
                                                            columnspan = 2)


## Buttons denoting the plant name to be selected
rose = tkinter.Button(flower_window, text = ”Rose”, image = fphoto,
                      height = 100,width = 300, font = (”algerian”, 25),
                      compound = ”left”, bg = ”white”,
                      command = buyrose).grid(row = 1, column = 0)


priceboxrose = tkinter.Label(flower_window, text = (”‘”,
                             price_dictionary[”rose”]),
                             font = (”indian␣rupee”, 25),
                             bg = ”white”).grid(row = 1, column = 1)


# for deletion
delrose = tkinter.Button(flower_window, text = ”Change␣quantity”,
                         image = cancelimage,
                      height = 100,width = 300, font = (”algerian”, 15),
                      compound = ”left”, bg = ”white”,
                      command = changerose).grid(row = 1, column = 2)

# for changing price
change_rose_price = tkinter.Button(flower_window, text = ”Change␣price”,
                       image = cancelimage,
                      height = 100,width = 300, font = (”algerian”, 15),
                      compound = ”left”, bg = ”white”,
                      command = rose_price_change).grid(row = 1, column = 3)



## Buttons denoting the plant name to be selected
sunflower = tkinter.Button(flower_window, text = ”sunflower”,
                           image = fphoto,
                           height = 100, width = 300, font = (”algerian”, 25),
                           compound = ”left”, bg = ”white”,
                           command = buysunflower).grid(row = 2, column = 0)

priceboxsunflower = tkinter.Label(flower_window, text = (”‘”,
                                  price_dictionary[”sunflower”]),
                                  font = (”indian␣rupee”, 25),
                                  bg = ”white”).grid(row = 2, column = 1)

# for deletion
delsunflower = tkinter.Button(flower_window, text = ”Change␣quantity”,   image =
                      height = 100,width = 300, font = (”algerian”, 15),
                      compound = ”left”, bg = ”white”,
                      command = changesunflower).grid(row = 2, column = 2)

# for changing price
change_sunflower_price = tkinter.Button(flower_window, text = ”Change␣price”,
                            image = cancelimage,
                           height = 100,width = 300, font = ("algerian", 15),
                           compound = "left", bg = "white",
                           command = sunflower_price_change).grid(row = 2, column = 3)


    ## Buttons denoting the plant name to be selected
    jasmine = tkinter.Button(flower_window, text = "jasmine", image = fphoto,
                              height = 100, width = 300, font = ("algerian", 25),
                              compound = "left", bg = "white",
                              command = buyjasmine).grid(row = 3, column = 0)

    priceboxjasmine = tkinter.Label(flower_window, text = ("‘",
                                     price_dictionary["jasmine"]),
                                     font = ("indian␣rupee", 25),
                                     bg = "white").grid(row = 3, column = 1)

    # for deletion
    deljasmine = tkinter.Button(flower_window, text = "Change␣quantity",   image = ca
                           height = 100,width = 300, font = ("algerian", 15),
                           compound = "left", bg = "white",
                           command = changejasmine).grid(row = 3, column = 2)

    # for changing price
    change_jasmine_price = tkinter.Button(flower_window, text = "Change␣price",
                            image = cancelimage,
                           height = 100,width = 300, font = ("algerian", 15),
                           compound = "left", bg = "white",
                           command = jasmine_price_change).grid(row = 3, column = 3)

# The given function will be assigned to the command of decoration button
# Hence it will be called when button is clicked
def gotodecoration():
    # Structure of the window that appears after entering the flower
    # section
    decoration_window = tkinter.Toplevel()
    decoration_window.title("Dedoration␣Plants")
    decoration_window.config(bg = "white")
    decoration_window.geometry("1150x500+150+150")

    decorationlabel = tkinter.Label(decoration_window,
                                     text = "Decoration␣Plants",
                                     font = ("algerian", 25), image = fphoto,
                                     compound = "left", bg = "white", height = 100,
                                     width = 500).grid(row = 0,
                                     column = 0, columnspan = 2)


    ## Buttons denoting the plant name to be selected
    aloevera = tkinter.Button(decoration_window, text = "Aloe␣vera",
                               image = fphoto, height = 100, width = 300,
                               font = ("algerian", 25), compound = "left",
                               bg = "white", command = buyaloevera).grid(row = 1,
                                                                   column = 0)

    priceboxaloevera = tkinter.Label(decoration_window, text = ("‘",
                                    price_dictionary["aloevera"]),
                                    font = ("indian␣rupee", 25),
                                    bg = "white").grid(row = 1, column = 1)
    # for deletion
    delaloevera = tkinter.Button(decoration_window, text = "Change␣quantity",
image = cancelimage,
                         height = 100,width = 300, font = ("algerian", 15),
                         compound = "left", bg = "white",
                         command = changealoevera).grid(row = 1, column = 2)

    # for changing price
    change_aloevera_price = tkinter.Button(decoration_window, text = "Change␣price",
                          image = cancelimage,
                         height = 100,width = 300, font = ("algerian", 15),
                         compound = "left", bg = "white",
                         command = aloevera_price_change).grid(row = 1, column = 3)



    ## Buttons denoting the plant name to be selected
    moneyplant = tkinter.Button(decoration_window, text = "Money␣Plant",
                               image = fphoto, height = 100, width = 300,
                               font = ("algerian", 25), compound = "left",
                               bg = "white",
                               command = buymoneyplant).grid(row = 2,
                                                            column = 0)

    priceboxmoneyplant = tkinter.Label(decoration_window, text = ("‘",
                                     price_dictionary["moneyplant"]),
                                     font = ("indian␣rupee", 25),
                                     bg = "white").grid(row = 2, column = 1)

    # for deletion
    delmoneyplant = tkinter.Button(decoration_window, text = "Change␣quantity",
image = cancelimage,
                         height = 100,width = 300, font = ("algerian", 15),
                         compound = "left", bg = "white",
                         command = changemoneyplant).grid(row = 2, column = 2)

    # for changing price
    change_moneyplant_price = tkinter.Button(decoration_window, text = "Change␣price'
                          image = cancelimage,
                         height = 100,width = 300, font = ("algerian", 15),
                         compound = "left", bg = "white",
                         command = moneyplant_price_change).grid(row = 2, column = 3)


    ## Buttons denoting the plant name to be selected
    jade = tkinter.Button(decoration_window, text = "Jade", image = fphoto,
                         height = 100, width = 300, font = ("algerian", 25),
                         compound = "left", bg = "white",
                         command = buyjade).grid(row = 3, column = 0)

    priceboxjade = tkinter.Label(decoration_window, text = ("‘",
                                price_dictionary["jade"]),
                                font = ("indian␣rupee", 25),
                                bg = ”white”).grid(row = 3, column = 1)
        # for deletion
    deljade = tkinter.Button(decoration_window, text = ”Change␣quantity”,    image = c
                        height = 100,width = 300, font = (”algerian”, 15),
                        compound = ”left”, bg = ”white”,
                        command = changejade).grid(row = 3, column = 2)

    # for changing price
    change_jade_price = tkinter.Button(decoration_window, text = ”Change␣price”,
                         image = cancelimage,
                        height = 100,width = 300, font = (”algerian”, 15),
                        compound = ”left”, bg = ”white”,
                        command = jade_price_change).grid(row = 3, column = 3)


# The given function will be assigned to the command of desert button
# Hence it will be called when button is clicked
def gotodesert():
    # Structure of the window that appears after entering the flower
    # section
    decoration_window = tkinter.Toplevel()
    decoration_window.title(”Desert␣plants”)
    decoration_window.config(bg = ”white”)
    decoration_window.geometry(”1150x500+150+150”)

    desertlabel = tkinter.Label(decoration_window, text = ”Desert␣Plants”,
                              font = (”algerian”, 25), image = fphoto,
                              compound = ”left”, bg = ”white”, height = 100,
                              width = 500).grid(row = 0, column = 0,
                                                columnspan = 2)



    ## Buttons denoting the plant name to be selected
    adenium = tkinter.Button(decoration_window, text = ”Adenium”,
                           image = fphoto,
                           height = 100, width = 300, font = (”algerian”, 25),
                           compound = ”left”, bg = ”white”,
                           command = buyadenium).grid(row = 1, column = 0)

    priceboxadenium = tkinter.Label(decoration_window, text = (” ‘”,
                                  price_dictionary[”adenium”]),
                                  font = (”indian␣rupee”, 25),
                                  bg = ”white”).grid(row = 1, column = 1)

    # for deletion
    deladenium = tkinter.Button(decoration_window, text = ”Change␣quantity”,
image = cancelimage,
                        height = 100,width = 300, font = (”algerian”, 15),
                        compound = ”left”, bg = ”white”,
                        command = changeadenium).grid(row = 1, column = 2)

    # for changing price
    change_adenium_price = tkinter.Button(decoration_window, text = ”Change␣price”,
                         image = cancelimage,
                        height = 100,width = 300, font = (”algerian”, 15),
                        compound = ”left”, bg = ”white”,
                                command = adenium_price_change).grid(row = 1, column = 3)

    ## Buttons denoting the plant name to be selected
    cactus = tkinter.Button(decoration_window, text = ”Cactus”, image = fphoto,
                                height = 100, width = 300, font = (”algerian”, 25),
                                compound = ”left”, bg = ”white”,
                                command = buycactus).grid(row = 2, column = 0)

    priceboxcactus = tkinter.Label(decoration_window, text = (”‘”,
                                        price_dictionary[”cactus”]),
                                        font = (”indian␣rupee”, 25),
                                        bg = ”white”).grid(row = 2, column = 1)

    # for deletion
    delcactus = tkinter.Button(decoration_window, text = ”Change␣quantity”,
image = cancelimage,
                              height = 100,width = 300, font = (”algerian”, 15),
                              compound = ”left”, bg = ”white”,
                              command = changecactus).grid(row = 2, column = 2)

    # for changing price
    change_cactus_price = tkinter.Button(decoration_window, text = ”Change␣price”,
                               image = cancelimage,
                              height = 100,width = 300, font = (”algerian”, 15),
                              compound = ”left”, bg = ”white”,
                              command = cactus_price_change).grid(row = 2, column = 3)


    ## Buttons denoting the plant name to be selected
    palm = tkinter.Button(decoration_window, text = ”Palm”, image = fphoto,
                              height = 100, width = 300, font = (”algerian”, 25),
                              compound = ”left”, bg = ”white”,
                              command = buypalm).grid(row = 3, column = 0)

    priceboxpalm = tkinter.Label(decoration_window, text = (”‘”,
                                       price_dictionary[”palm”]),
                                       font = (”indian␣rupee”, 25),
                                       bg = ”white”).grid(row = 3, column = 1)
    # for deletion
    delpalm = tkinter.Button(decoration_window, text = ”Change␣quantity”,    image = c
                              height = 100,width = 300, font = (”algerian”, 15),
                              compound = ”left”, bg = ”white”,
                              command = changepalm).grid(row = 3, column = 2)

    # for changing price
    change_palm_price = tkinter.Button(decoration_window, text = ”Change␣price”,
                               image = cancelimage,
                              height = 100,width = 300, font = (”algerian”, 15),
                              compound = ”left”, bg = ”white”,
                              command = palm_price_change).grid(row = 3, column = 3)


# function to generate the pdf of the bill
def print_bill():
    # name of the buyer
    custumer_name = simpledialog.askstring(”Name”, ”Enter␣the␣name␣of␣custumer”)
    # Language of the bill
    os.environ["INVOICE_LANG"] = "en"
    client = Client(custumer_name)
    provider = Provider("Nature's␣Nursery", bank_account='6454-6361-217273', bank_coo
    creator = Creator('Vishesh␣Chouhan')
    invoice = Invoice(client, provider, creator)
    for key in quantity_dictionary:
        invoice.add_item(Item(quantity_dictionary[key], price_dictionary[key], descri

    invoice.currency = "Rs."
    invoice.number = "10393069"
    docu = SimpleInvoice(invoice)
    docu.gen("Invoice.pdf")

## The billf function will generate the bill
## and is assigned to the command argument of bill button
def billf():
    ## bill window
    bill_window = tkinter.Toplevel()
    bill_window.title("BILL")
    bill_window.config(bg = "white")
    bill_window.geometry("600x650+150+0")


    ## The structure of the bill
    billh = tkinter.Label(bill_window, text = "XYZ␣Nursery",
                          font = ("agency␣fb", 20, "bold"),
                          bg = "white").grid(row = 0, column = 1,
                                                          columnspan = 5)

    address = tkinter.Label(bill_window, text = "MR␣2,␣NEAR␣PQY␣PARK,␣AB␣ROAD",
                           font = ("agency␣fb", 15),
                           bg = "white").grid(row = 1, column = 1, columnspan = 5)

    mobno = tkinter.Label(bill_window, text = "Mob␣:␣98765_____",
                          font = ("agency␣fb", 15),
                          bg = "white").grid(row = 2, column = 1, columnspan = 5)

    email = tkinter.Label(bill_window, text = "E␣Mail␣:␣xyznursery@gmail.com",
                          font = ("agency␣fb", 15),
                          bg = "white").grid(row = 3, column = 1, columnspan = 5)

    cashsalesinvoice = tkinter.Label(bill_window, text = "CASH␣SALES␣INVOICE",
                                     font = ("agency␣fb", 15, "bold"),
                                     bg = "white").grid(row = 4, column = 1,
                                                          columnspan = 5)

    sno = tkinter.Label(bill_window, text = "{0:^5s}".format("S.No"),
                        font = ("indian␣rupee", 15), bg = "white", borderwidth = 2,
                        relief = "groove", width = 5).grid(row = 5, column = 0)

    description = tkinter.Label(bill_window, text = "{0:^40s}"
                                .format("Description␣of␣goods"),
                                font = ("indian␣rupee", 15), bg = "white",
                              borderwidth = 2, relief = "groove",
                              width = 23).grid(row = 5, column = 1)

    quantity = tkinter.Label(bill_window, text = "{0:^15s}".format("Quantity"),
                             font = ("indian␣rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 8).grid(row = 5, column = 2)

    rate = tkinter.Label(bill_window, text = "{0:^10s}".format("Rate"),
                         font = ("indian␣rupee", 15), bg = "white",
                         borderwidth = 2,
                         relief = "groove", width = 8).grid(row = 5, column = 3)

    amount = tkinter.Label(bill_window, text = "{0:^10s}".format("Amount"),
                           font = ("indian␣rupee", 15), bg = "white",
                           borderwidth = 2,
                           relief = "groove", width = 8).grid(row = 5, column = 4)



    row_number = 1
    total_amount = 0
    total_quantity = 0


    for i in quantity_dictionary:
        snor = tkinter.Label(bill_window, text = "{0:^5d}".format(row_number),
                             font = ("indian␣rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 5).grid(row = row_number+6, column = 0)

        descriptionr = tkinter.Label(bill_window, text = "{0:^40s}"
                                   .format(i.capitalize()), font = ("indian␣rupee"
                                   bg = "white", borderwidth = 2,
                                   relief = "groove",
                                   width = 23).grid(row = row_number+6,
                                   column = 1)

        quantityr = tkinter.Label(bill_window, text = "{0:^15d}"
                                 .format(quantity_dictionary[i]),
                                 font = ("indian␣rupee", 15), bg = "white",
                                 borderwidth = 2, relief = "groove",
                                 width = 8).grid(row = row_number+6, column = 2)

        rater = tkinter.Label(bill_window, text = "{0:^10d}"
                             .format(price_dictionary[i]),
                             font = ("indian␣rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 8).grid(row = row_number+6, column = 3)

        amountr = tkinter.Label(bill_window, text = "{0:^10d}"
                              .format(quantity_dictionary[i]
                              *price_dictionary[i]),
                              font = ("indian␣rupee", 15), bg = "white",
                              borderwidth = 2, relief = "groove",
                              width = 8).grid(row = row_number+6, column = 4)
```

```
            row_number += 1
            total_amount += quantity_dictionary[i]*price_dictionary[i]
            total_quantity += quantity_dictionary[i]




    ## calculate the total of the bill
    total = tkinter.Label(bill_window, text = "{0:^40s}"
                          .format("Total"), font = ("indian␣rupee", 15),
                          bg = "white", borderwidth = 2, relief = "groove",
                          width = 23).grid(row = row_number+6, column = 1)

    quantityr = tkinter.Label(bill_window, text = "{0:^15d}"
                              .format(total_quantity),
                              font = ("indian␣rupee", 15), bg = "white",
                              borderwidth = 2, relief = "groove",
                              width = 8).grid(row = row_number+6, column = 2)

    amountr = tkinter.Label(bill_window, text = "{0:^10d}"
                              .format(total_amount),
                              font = ("indian␣rupee", 15), bg = "white",
                              borderwidth = 2, relief = "groove",
                              width = 8).grid(row = row_number+6, column = 4)


    def pay():
        simpledialog_box_ask_yes_no = messagebox.askyesno("",
                                     "Do␣you␣really␣want␣to␣recieve␣transaction.")
        if simpledialog_box_ask_yes_no:
            messageboxpaydone = messagebox.showinfo("Thankyou",
                                                    "Payment␣␣Successfull")



    sort_bill_button = tkinter.Button(bill_window, text = "Sort␣Bill",
                                      font = ("algerian", 15), bg = "white",
                                      borderwidth = 3, relief = "raised",
                                      command = sortbill).place(x = 255, y = 600)

    print_button = tkinter.Button(bill_window, text = "Print␣bill",
                                  font = ("algerian", 15), bg = "white",
                                  borderwidth = 3, relief = "raised",
                                  command = print_bill).place(x = 130, y = 600)


# function that sort the list
def sort_list(l):
    for r in range(len(l)):
        for c in range(len(l)-r-1):
            if l[c] > l[c+1]:
                l[c], l[c+1] = l[c+1], l[c]
```

```
# produces result in sorted order
# alphanumerically with respect to the plant name
def sortbill():
    ## bill window
    bill_window = tkinter.Toplevel()
    bill_window.title("BILL")
    bill_window.config(bg = "white")
    bill_window.geometry("600x650+150+0")


    ## The structure of the bill
    billh = tkinter.Label(bill_window, text = "XYZ Nursery",
                          font = ("agency fb", 20, "bold"),
                          bg = "white").grid(row = 0, column = 1,
                                             columnspan = 5)

    address = tkinter.Label(bill_window, text = "MR 2, NEAR PQY PARK, AB ROAD",
                            font = ("agency fb", 15),
                            bg = "white").grid(row = 1, column = 1, columnspan = 5)

    mobno = tkinter.Label(bill_window, text = "Mob : 98765_____",
                          font = ("agency fb", 15),
                          bg = "white").grid(row = 2, column = 1, columnspan = 5)

    email = tkinter.Label(bill_window, text = "E Mail : xyznursery@gmail.com",
                          font = ("agency fb", 15),
                          bg = "white").grid(row = 3, column = 1, columnspan = 5)

    cashsalesinvoice = tkinter.Label(bill_window, text = "CASH SALES INVOICE",
                                     font = ("agency fb", 15, "bold"),
                                     bg = "white").grid(row = 4, column = 1,
                                                        columnspan = 5)

    sno = tkinter.Label(bill_window, text = "{0:^5s}".format("S.No"),
                        font = ("indian rupee", 15), bg = "white", borderwidth = 2,
                        relief = "groove", width = 5).grid(row = 5, column = 0)

    description = tkinter.Label(bill_window, text = "{0:^40s}"
                                .format("Description of goods"),
                                font = ("indian rupee", 15), bg = "white",
                                borderwidth = 2, relief = "groove",
                                width = 23).grid(row = 5, column = 1)

    quantity = tkinter.Label(bill_window, text = "{0:^15s}".format("Quantity"),
                             font = ("indian rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 8).grid(row = 5, column = 2)

    rate = tkinter.Label(bill_window, text = "{0:^10s}".format("Rate"),
                         font = ("indian rupee", 15), bg = "white",
                         borderwidth = 2,
                         relief = "groove", width = 8).grid(row = 5, column = 3)

    amount = tkinter.Label(bill_window, text = "{0:^10s}".format("Amount"),
                          font = ("indian_rupee", 15), bg = "white",
                          borderwidth = 2,
                          relief = "groove", width = 8).grid(row = 5, column = 4)



    row_number = 1
    total_amount = 0
    total_quantity = 0

    # list that contains plant name in sorted order
    listOfPlants = ["adenium","cactus","rose","sunflower","jasmine","jade","palm","m
    sort_list(listOfPlants)

    for i in listOfPlants:
        if i in quantity_dictionary:
            snor = tkinter.Label(bill_window, text = "{0:^5d}".format(row_number),
                               font = ("indian_rupee", 15), bg = "white",
                               borderwidth = 2, relief = "groove",
                               width = 5).grid(row = row_number+6, column = 0)

            descriptionr = tkinter.Label(bill_window, text = "{0:^40s}"
                                      .format(i.capitalize()), font = ("indian_rupee"
                                      bg = "white", borderwidth = 2,
                                      relief = "groove",
                                      width = 23).grid(row = row_number+6,
                                      column = 1)

            quantityr = tkinter.Label(bill_window, text = "{0:^15d}"
                                    .format(quantity_dictionary[i]),
                                    font = ("indian_rupee", 15), bg = "white",
                                    borderwidth = 2, relief = "groove",
                                    width = 8).grid(row = row_number+6, column = 2)

            rater = tkinter.Label(bill_window, text = "{0:^10d}"
                               .format(price_dictionary[i]),
                               font = ("indian_rupee", 15), bg = "white",
                               borderwidth = 2, relief = "groove",
                               width = 8).grid(row = row_number+6, column = 3)

            amountr = tkinter.Label(bill_window, text = "{0:^10d}"
                                .format(quantity_dictionary[i]
                                *price_dictionary[i]),
                                font = ("indian_rupee", 15), bg = "white",
                                borderwidth = 2, relief = "groove",
                                width = 8).grid(row = row_number+6, column = 4)

            row_number += 1
            total_amount += quantity_dictionary[i]*price_dictionary[i]
            total_quantity += quantity_dictionary[i]

    ## calculate the total of the bill
    total = tkinter.Label(bill_window, text = "{0:^40s}"
                          .format("Total"), font = ("indian_rupee", 15),
                          bg = "white", borderwidth = 2, relief = "groove",
                          width = 23).grid(row = row_number+6, column = 1)
    quantityr = tkinter.Label(bill_window, text = "{0:^15d}"
                             .format(total_quantity),
                             font = ("indian␣rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 8).grid(row = row_number+6, column = 2)

    amountr = tkinter.Label(bill_window, text = "{0:^10d}"
                             .format(total_amount),
                             font = ("indian␣rupee", 15), bg = "white",
                             borderwidth = 2, relief = "groove",
                             width = 8).grid(row = row_number+6, column = 4)


    print_button = tkinter.Button(bill_window, text = "Print␣bill",
                                 font = ("algerian", 15), bg = "white",
                                 borderwidth = 3, relief = "raised",
                                 command = print_bill).place(x = 200, y = 600)






## The runner of the code
def main():

    img = tkinter.Label(main_window, image = fphoto, compound = "left",
                         bg = "white", height = 100,
                         width = 500).grid(row = 0, column = 0)

    flower = tkinter.Button(main_window, text = "flowery␣plant",
                             font = ("algerian", 25), bg = "white", width = 24,
                             height = 2, command = gotoflower).grid(row = 1,
                             column = 0)

    decoration = tkinter.Button(main_window, text = "decoration␣plant",
                                 font = ("algerian", 25), bg = "white",
                                  width = 24,
                                 height = 2,
                                 command = gotodecoration).grid(row = 2,
                                 column = 0)

    desert = tkinter.Button(main_window, text = "desert␣plant",
                             font = ("algerian", 25), bg = "white", width = 24,
                             height = 2, command = gotodesert).grid(row = 3,
                             column = 0)

    space = tkinter.Label(main_window, bg = "white", width = 24,
                          height = 2).grid(row = 4, column = 0)

    bill = tkinter.Button(main_window, text = "Bill", font = ("algerian", 15,
                         "bold"), bg = "white", command = billf).grid(row = 5,
                         column = 0)
    main_window.mainloop()

## The block that will be run by default
if __name__ == "__main__":
    main_window = tkinter.Tk()
    main_window.title("Nursery")
    main_window.config(bg = "white")
    main_window.geometry("500x500+150+150")
    photo = tkinter.PhotoImage(file = "photo.png")
    fphoto = photo.subsample(3, 3)

    photo1 = tkinter.PhotoImage(file = "cancel.png")
    cancelimage = photo1.subsample(3,3)

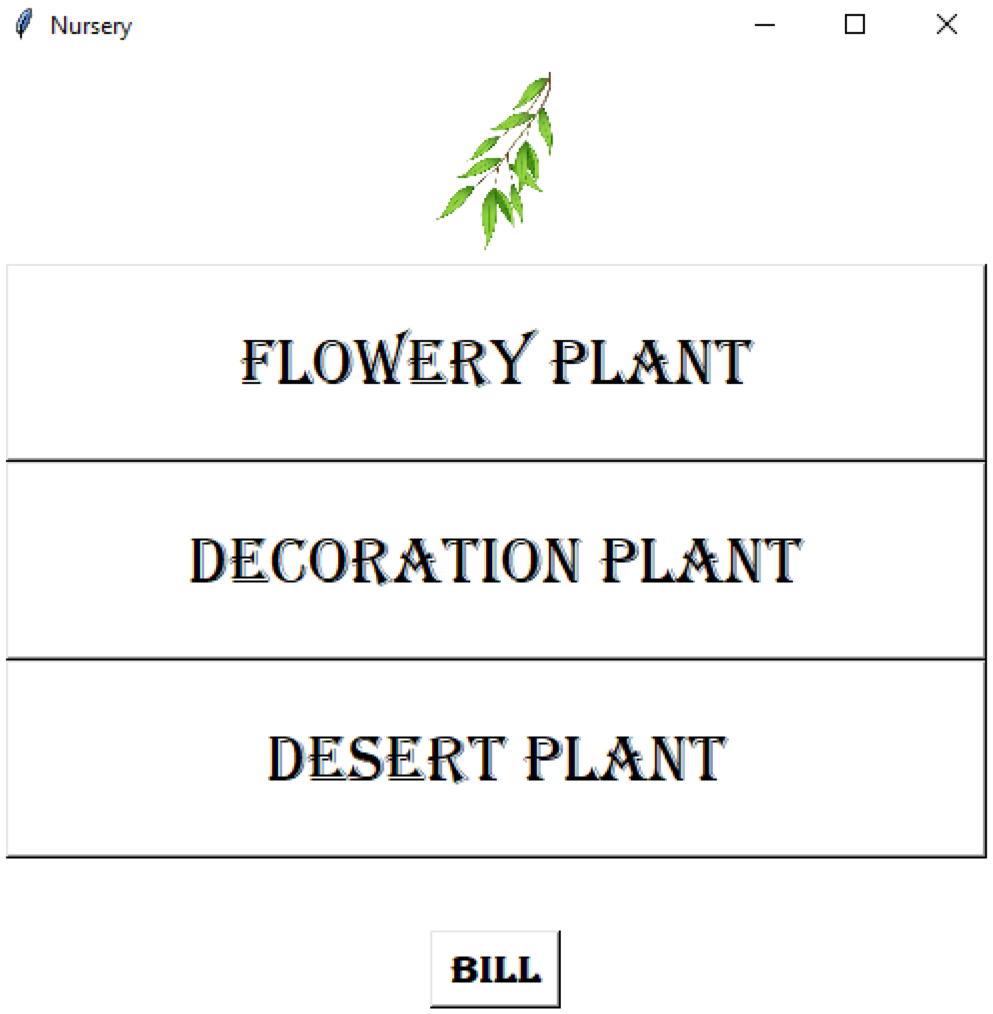
    ## module function for profiling

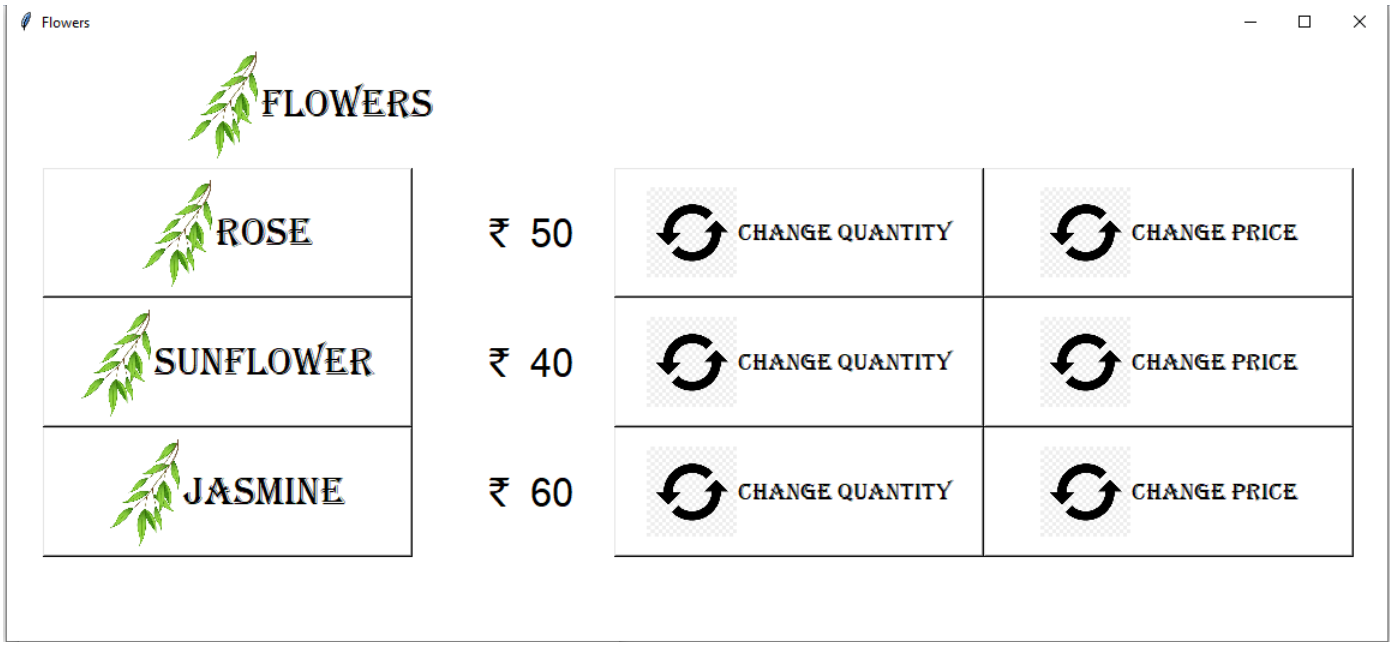
    cProfile.run("main()", "output.dat")

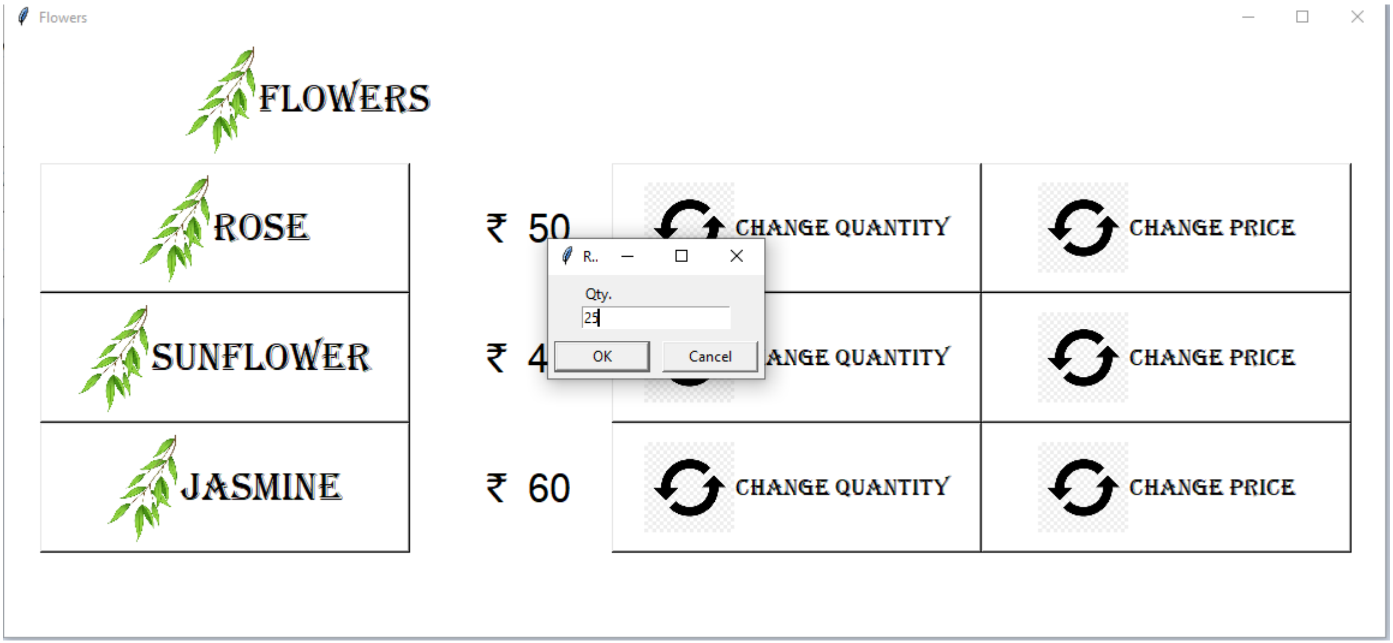


    ## creating the output file that contains the profiled data
    with open("output_time.txt", "w") as f:
        p = pstats.Stats("output.dat", stream = f)
        p.sort_stats("time").print_stats()
```

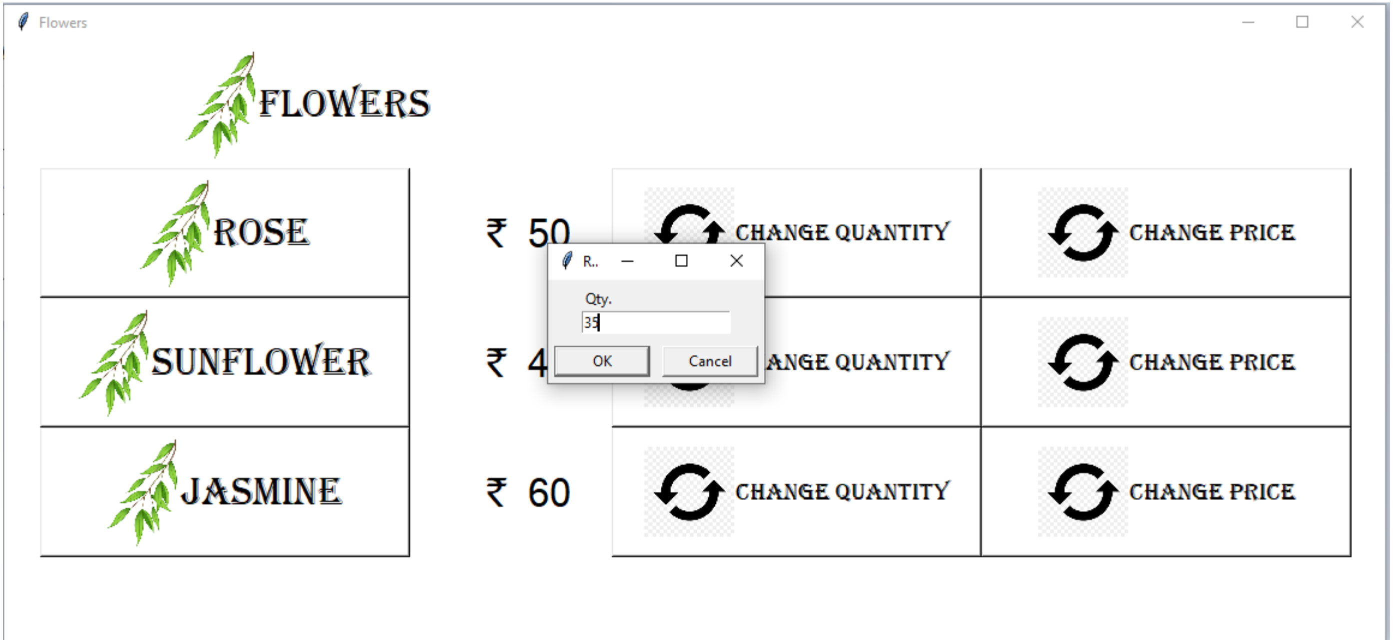
PROGRAM OUTPUT



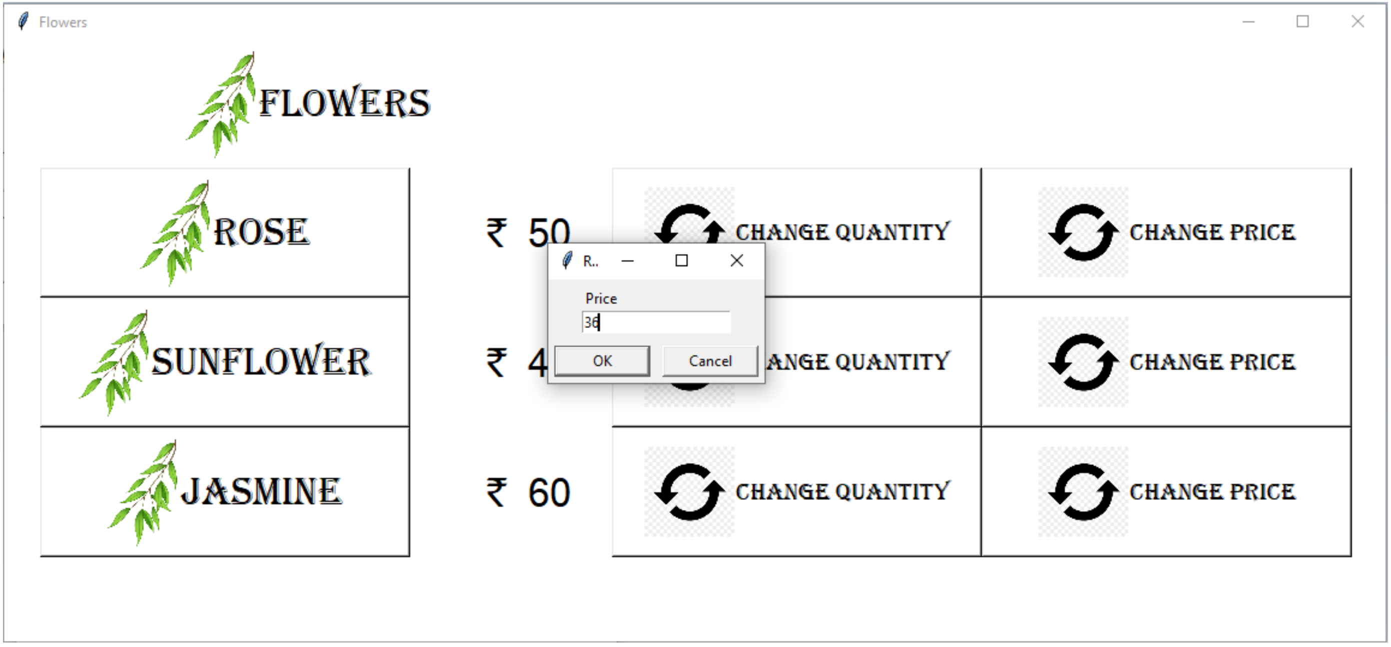




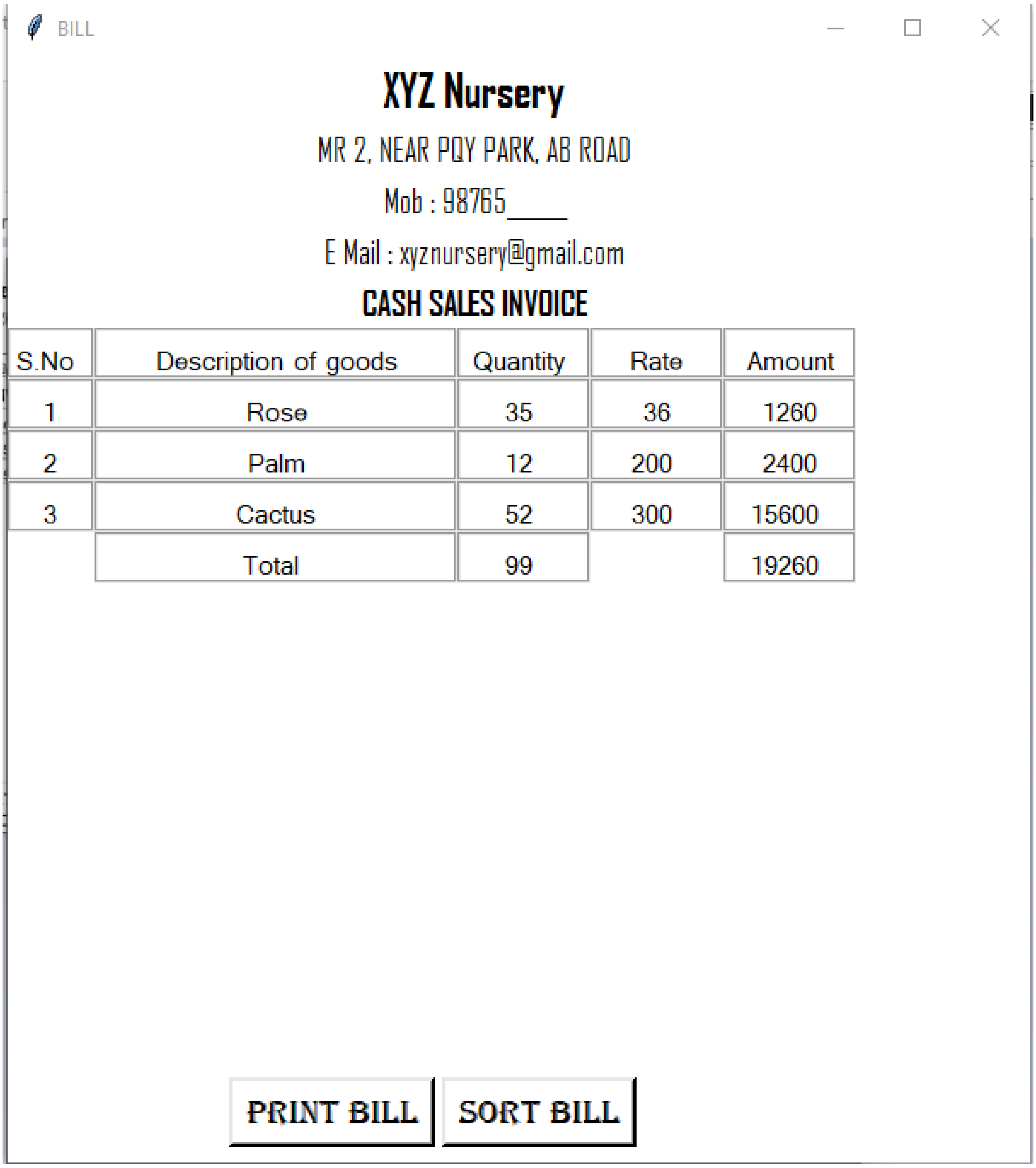
Qty.
25



Qty.
35



Price
36



BILL

XYZ Nursery

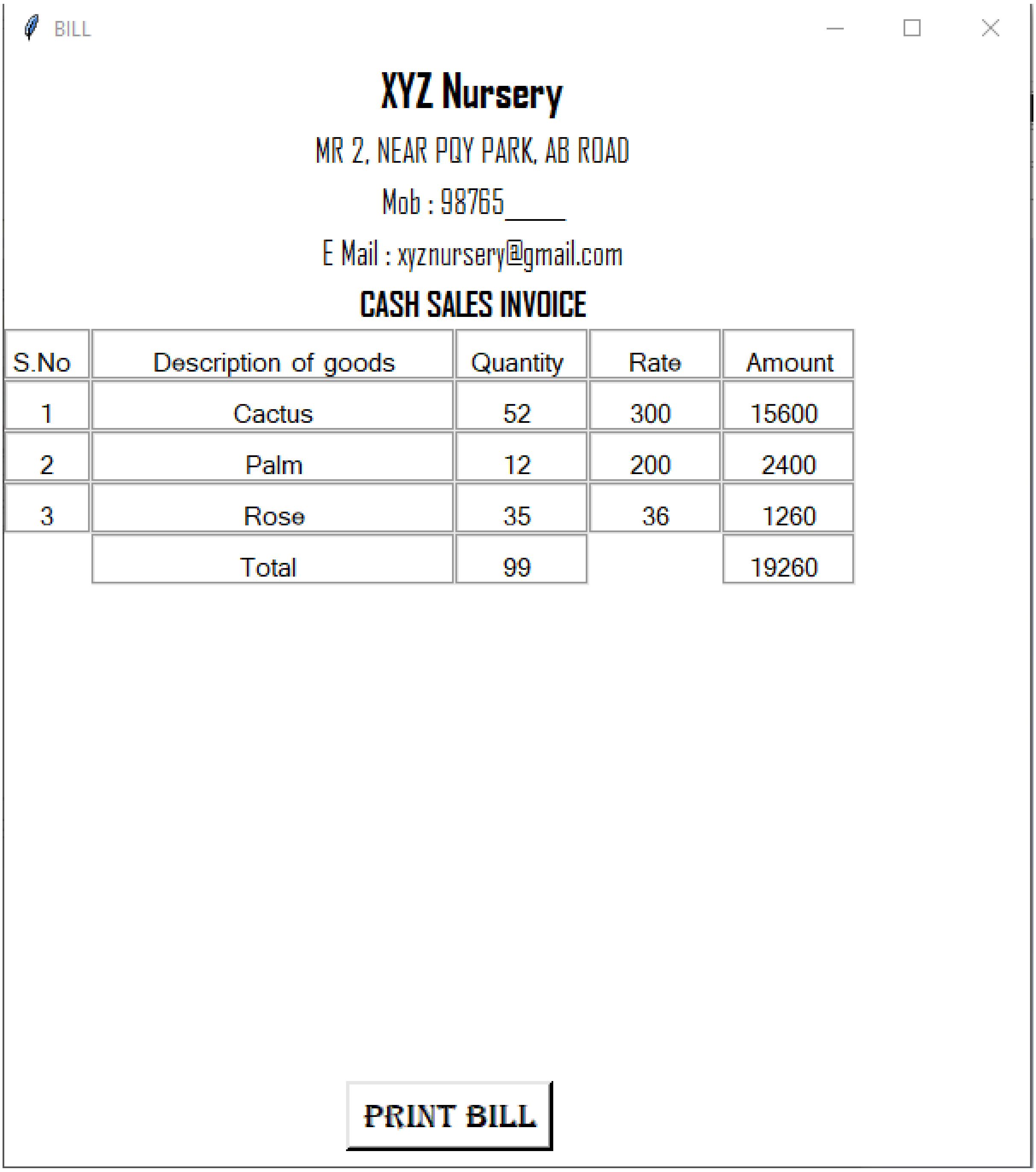
MR 2, NEAR PQY PARK, AB ROAD

Mob : 98765_____

E Mail : xyznursery@gmail.com

CASH SALES INVOICE

S.No	Description of goods	Quantity	Rate	Amount
1	Rose	35	36	1260
2	Palm	12	200	2400
3	Cactus	52	300	15600
	Total	99		19260



XYZ Nursery

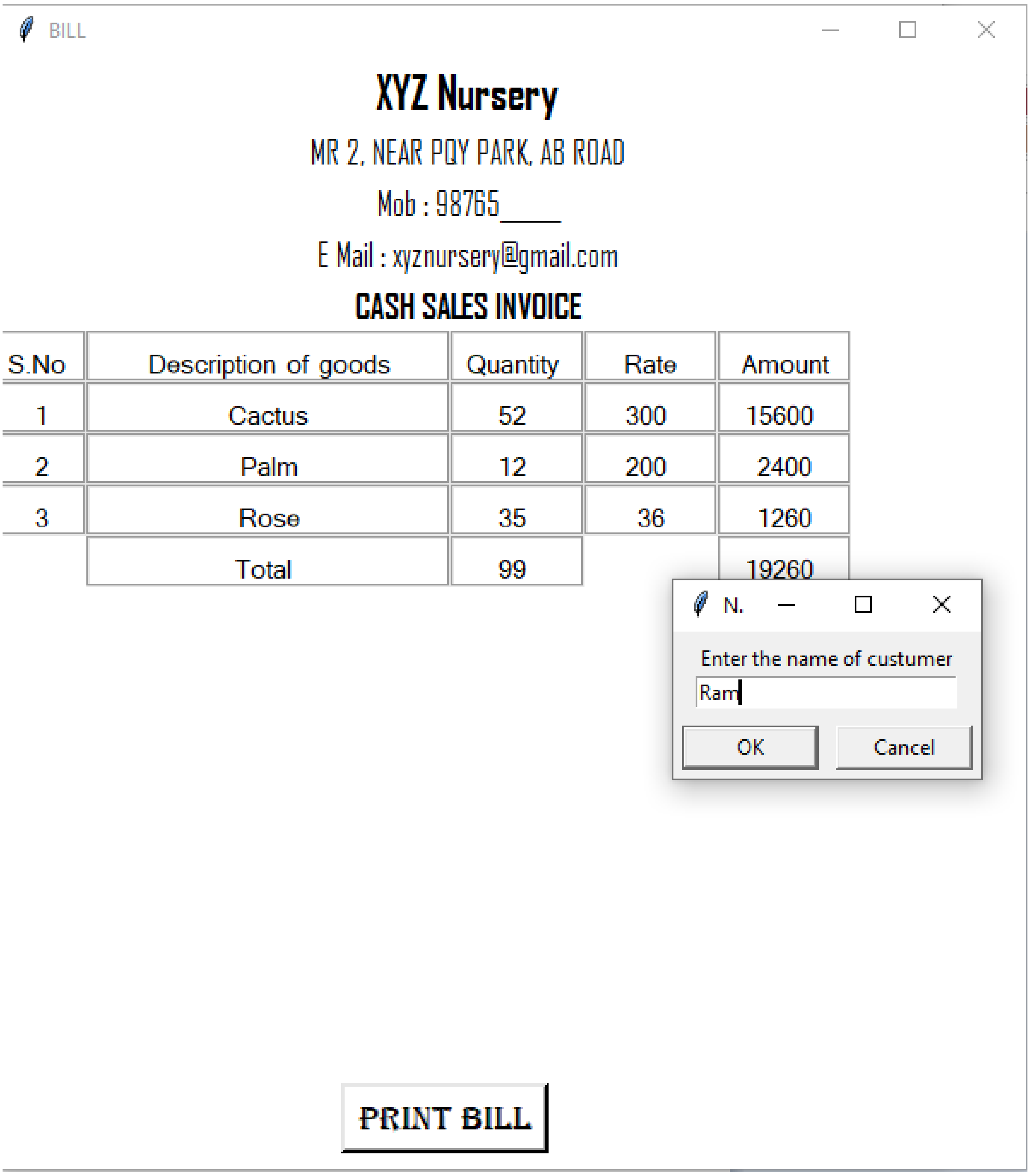
MR 2, NEAR PQY PARK, AB ROAD

Mob : 98765_____

E Mail : xyznursery@gmail.com

CASH SALES INVOICE

S.No	Description of goods	Quantity	Rate	Amount
1	Cactus	52	300	15600
2	Palm	12	200	2400
3	Rose	35	36	1260
	Total	99		19260



XYZ Nursery

MR 2, NEAR PQY PARK, AB ROAD

Mob : 98765_____

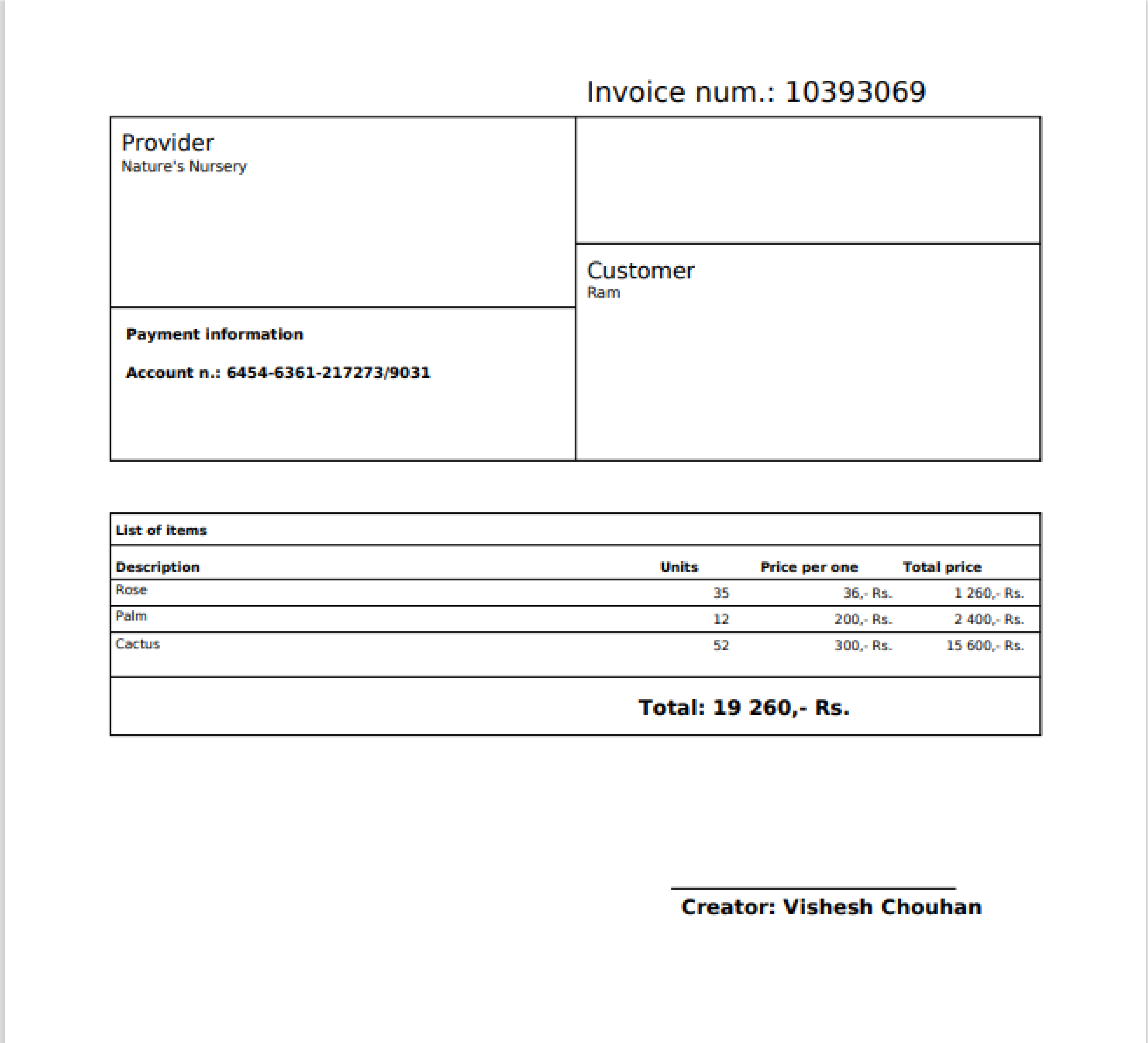
E Mail : xyznursery@gmail.com

CASH SALES INVOICE

S.No	Description of goods	Quantity	Rate	Amount
1	Cactus	52	300	15600
2	Palm	12	200	2400
3	Rose	35	36	1260
	Total	99		19260

Enter the name of custumer

Ram



Invoice num.: 10393069

Provider
Nature's Nursery

Customer
Ram

Payment information

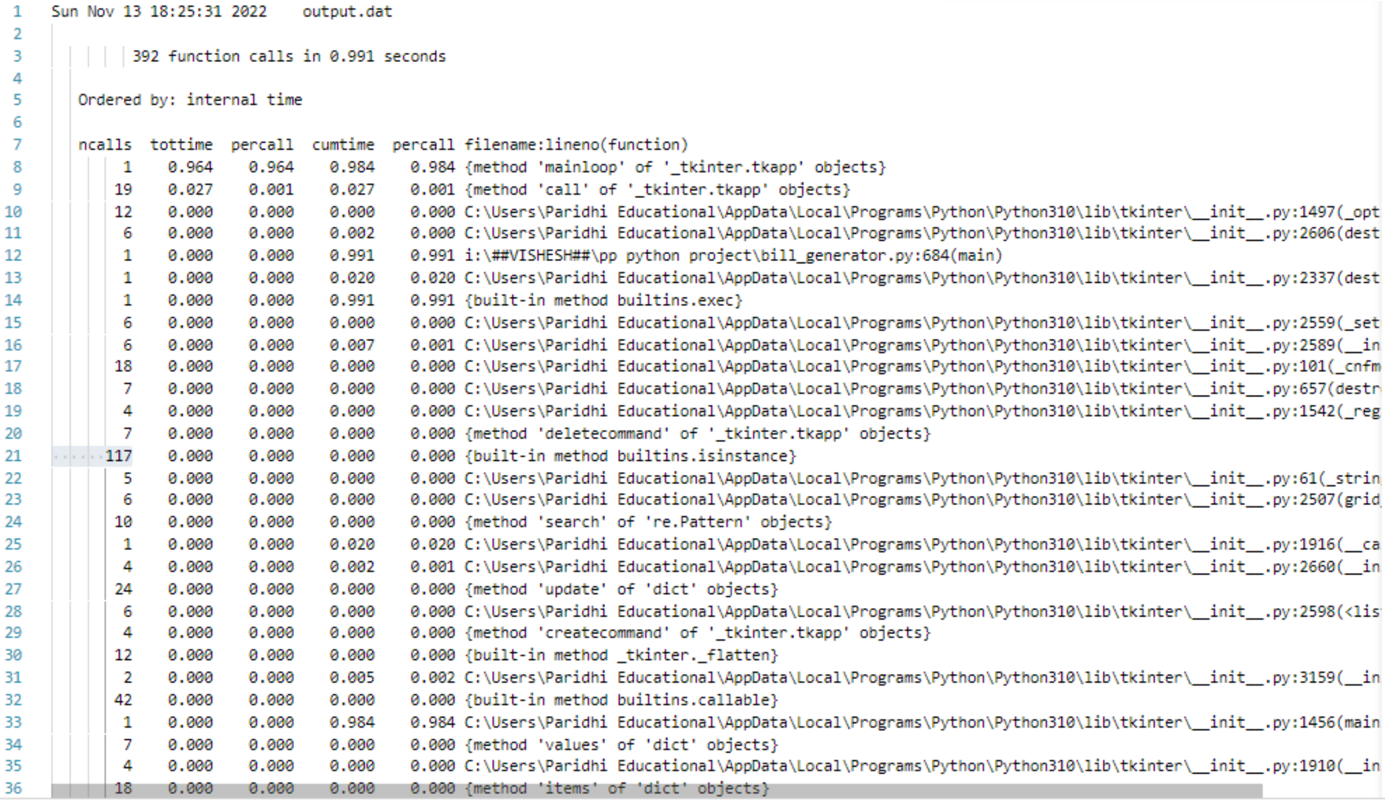
Account n.: 6454-6361-217273/9031

List of items			
Description	**Units**	**Price per one**	**Total price**
Rose	35	36,- Rs.	1 260,- Rs.
Palm	12	200,- Rs.	2 400,- Rs.
Cactus	52	300,- Rs.	15 600,- Rs.

Total: 19 260,- Rs.

Creator: Vishesh Chouhan

PROFILLING DATA

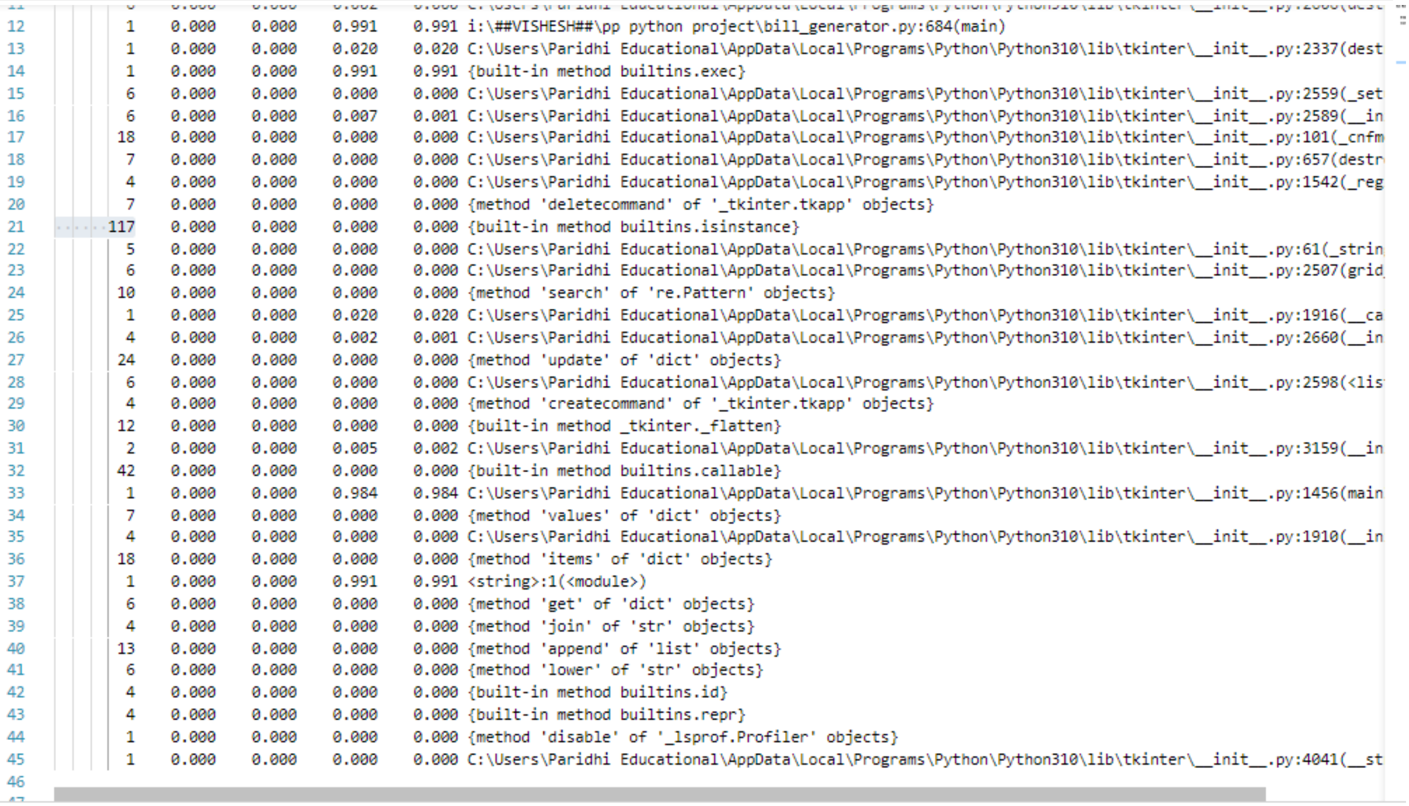


```
Sun Nov 13 18:25:31 2022    output.dat

         392 function calls in 0.991 seconds

   Ordered by: internal time

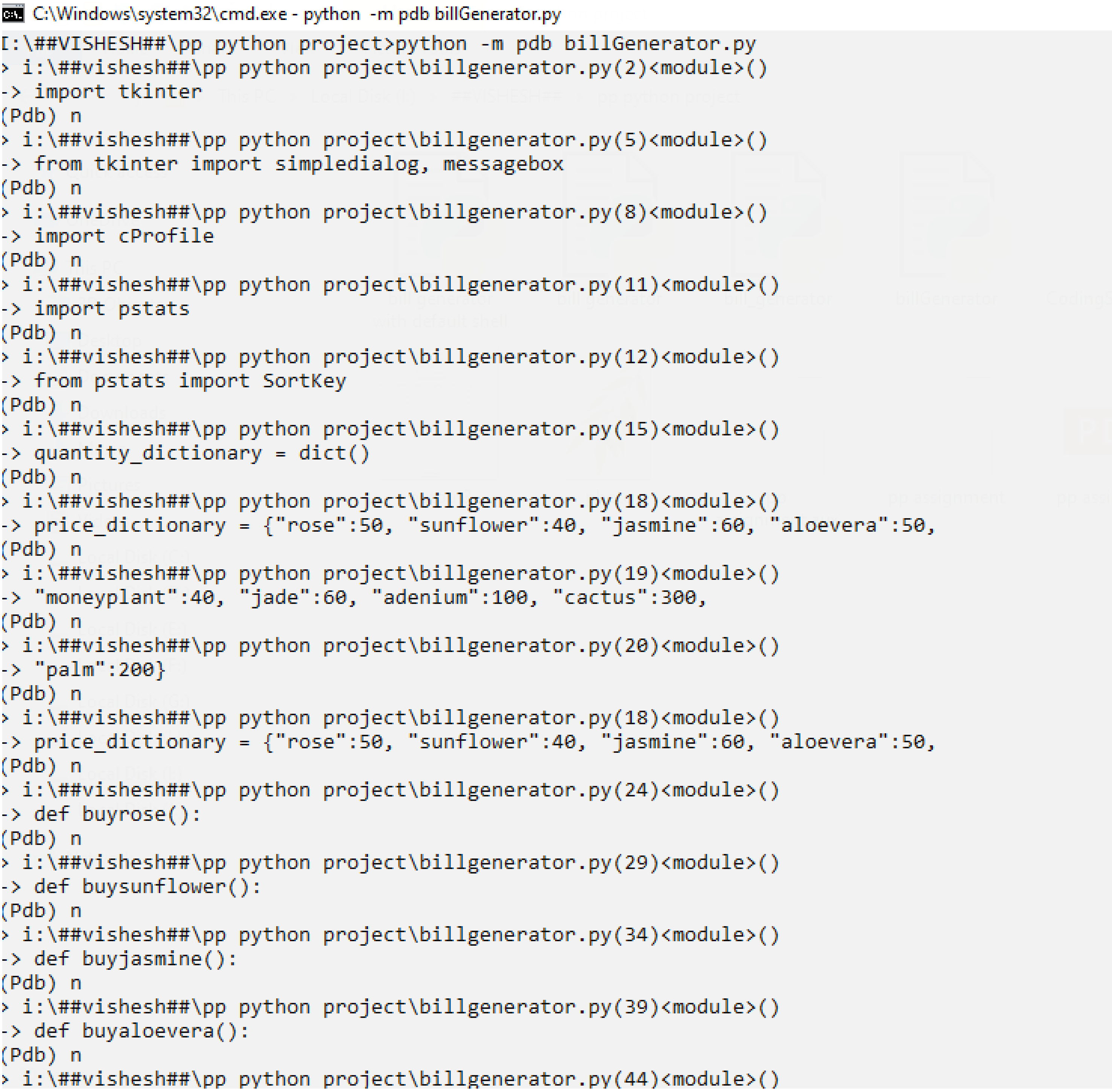
   ncalls  tottime  percall  cumtime  percall filename:lineno(function)
        1    0.964    0.964    0.984    0.984 {method 'mainloop' of '_tkinter.tkapp' objects}
       19    0.027    0.001    0.027    0.001 {method 'call' of '_tkinter.tkapp' objects}
       12    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1497(_opt
        6    0.000    0.000    0.002    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2606(dest
        1    0.000    0.000    0.991    0.991 i:\##VISHESH##\pp python project\bill_generator.py:684(main)
        1    0.000    0.000    0.020    0.020 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2337(dest
        1    0.000    0.000    0.991    0.991 {built-in method builtins.exec}
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2559(_set
        6    0.000    0.000    0.007    0.001 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2589(__in
       18    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:101(_cnfm
        7    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:657(destr
        4    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1542(_reg
        7    0.000    0.000    0.000    0.000 {method 'deletecommand' of '_tkinter.tkapp' objects}
      117    0.000    0.000    0.000    0.000 {built-in method builtins.isinstance}
        5    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:61(_strin
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2507(grid
       10    0.000    0.000    0.000    0.000 {method 'search' of 're.Pattern' objects}
        1    0.000    0.000    0.020    0.020 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1916(__ca
        4    0.000    0.000    0.002    0.001 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2660(__in
       24    0.000    0.000    0.000    0.000 {method 'update' of 'dict' objects}
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2598(<lis
        4    0.000    0.000    0.000    0.000 {method 'createcommand' of '_tkinter.tkapp' objects}
       12    0.000    0.000    0.000    0.000 {built-in method _tkinter._flatten}
        2    0.000    0.000    0.005    0.002 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:3159(__in
       42    0.000    0.000    0.000    0.000 {built-in method builtins.callable}
        1    0.000    0.000    0.984    0.984 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1456(main
        7    0.000    0.000    0.000    0.000 {method 'values' of 'dict' objects}
        4    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1910(__in
       18    0.000    0.000    0.000    0.000 {method 'items' of 'dict' objects}
```



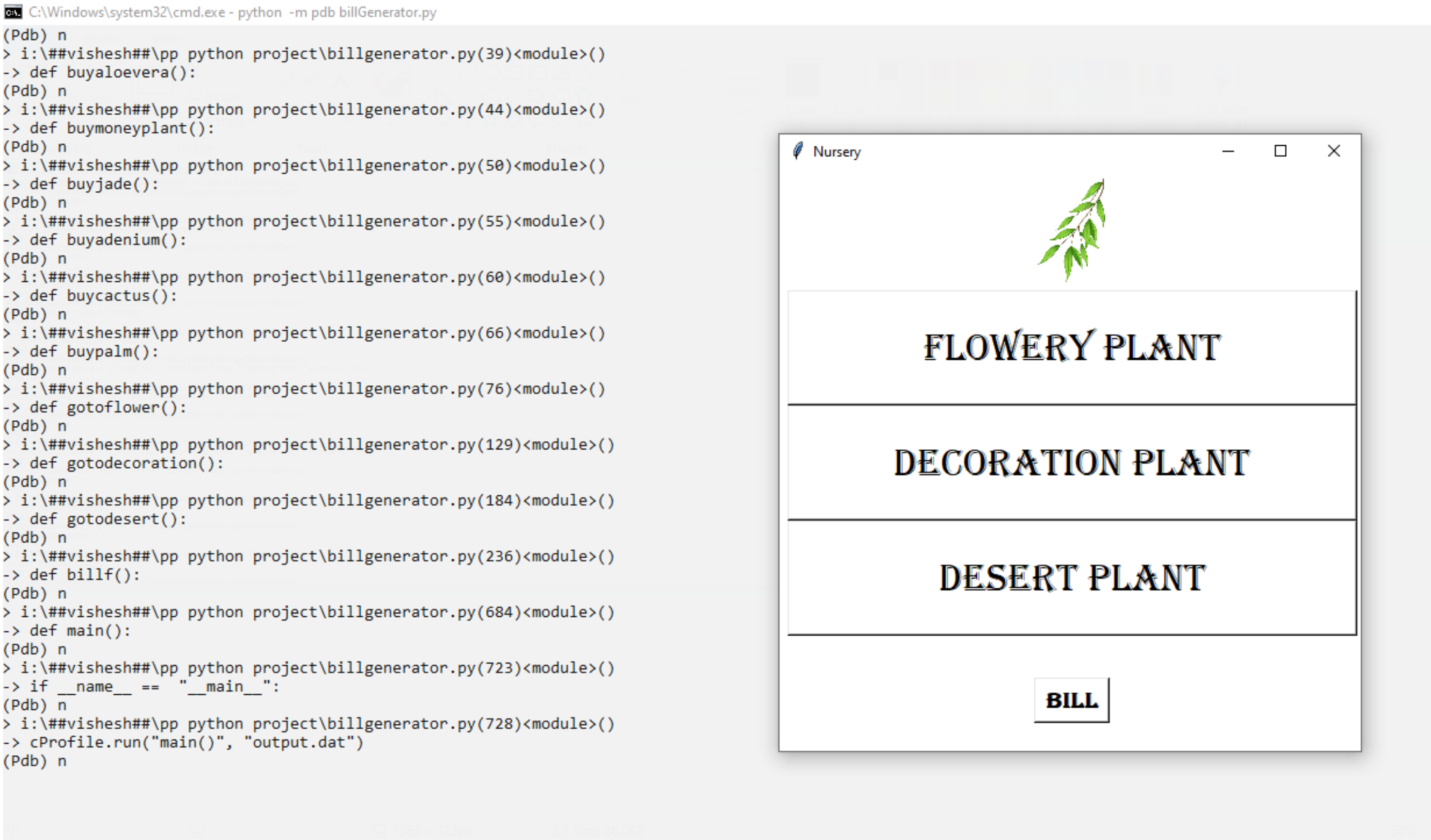
```
        1    0.000    0.000    0.991    0.991 i:\##VISHESH##\pp python project\bill_generator.py:684(main)
        1    0.000    0.000    0.020    0.020 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2337(dest
        1    0.000    0.000    0.991    0.991 {built-in method builtins.exec}
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2559(_set
        6    0.000    0.000    0.007    0.001 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2589(__in
       18    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:101(_cnfm
        7    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:657(destr
        4    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1542(_reg
        7    0.000    0.000    0.000    0.000 {method 'deletecommand' of '_tkinter.tkapp' objects}
      117    0.000    0.000    0.000    0.000 {built-in method builtins.isinstance}
        5    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:61(_strin
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2507(grid
       10    0.000    0.000    0.000    0.000 {method 'search' of 're.Pattern' objects}
        1    0.000    0.000    0.020    0.020 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1916(__ca
        4    0.000    0.000    0.002    0.001 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2660(__in
       24    0.000    0.000    0.000    0.000 {method 'update' of 'dict' objects}
        6    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:2598(<lis
        4    0.000    0.000    0.000    0.000 {method 'createcommand' of '_tkinter.tkapp' objects}
       12    0.000    0.000    0.000    0.000 {built-in method _tkinter._flatten}
        2    0.000    0.000    0.005    0.002 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:3159(__in
       42    0.000    0.000    0.000    0.000 {built-in method builtins.callable}
        1    0.000    0.000    0.984    0.984 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1456(main
        7    0.000    0.000    0.000    0.000 {method 'values' of 'dict' objects}
        4    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:1910(__in
       18    0.000    0.000    0.000    0.000 {method 'items' of 'dict' objects}
```

```
        1    0.000    0.000    0.991    0.991 <string>:1(<module>)
        6    0.000    0.000    0.000    0.000 {method 'get' of 'dict' objects}
        4    0.000    0.000    0.000    0.000 {method 'join' of 'str' objects}
       13    0.000    0.000    0.000    0.000 {method 'append' of 'list' objects}
        6    0.000    0.000    0.000    0.000 {method 'lower' of 'str' objects}
        4    0.000    0.000    0.000    0.000 {built-in method builtins.id}
        4    0.000    0.000    0.000    0.000 {built-in method builtins.repr}
        1    0.000    0.000    0.000    0.000 {method 'disable' of '_lsprof.Profiler' objects}
        1    0.000    0.000    0.000    0.000 C:\Users\Paridhi Educational\AppData\Local\Programs\Python\Python310\lib\tkinter\__init__.py:4041(__st
```

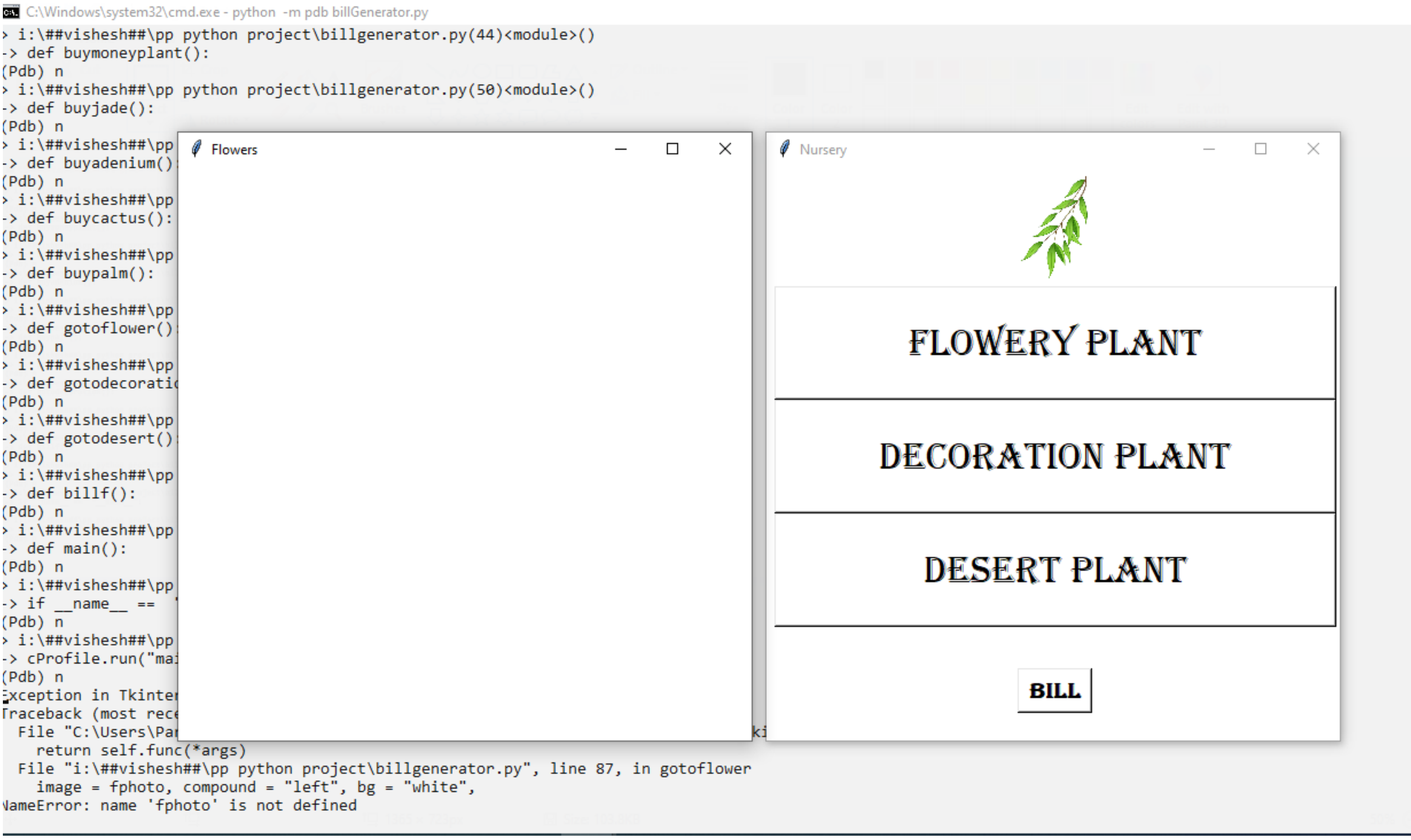
DEBBUGING STEPS


C:\Windows\system32\cmd.exe - python -m pdb billGenerator.py

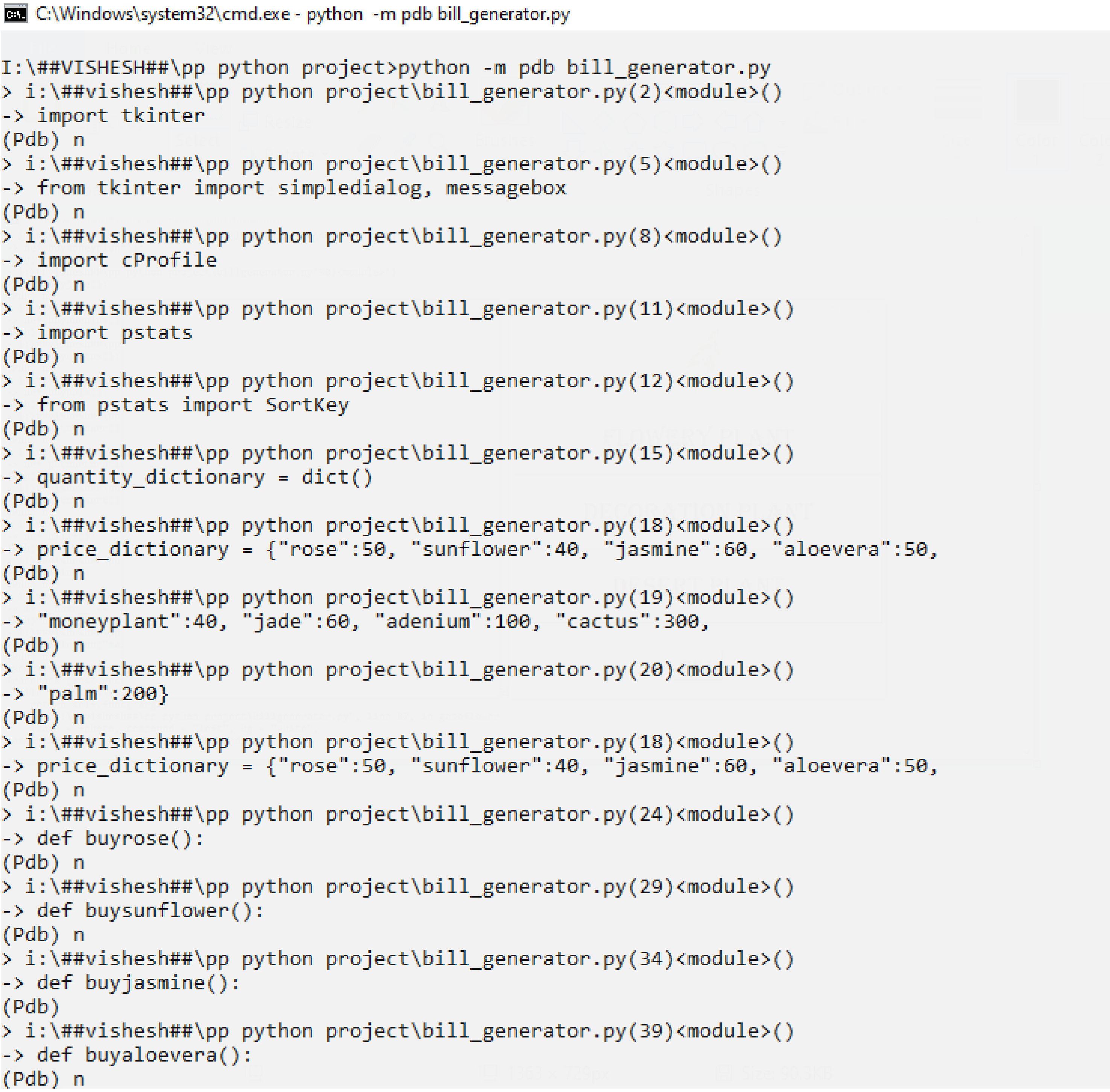
```
I:\##VISHESH##\pp python project>python -m pdb billGenerator.py
> i:\##visheshs##\pp python project\billgenerator.py(2)<module>()
-> import tkinter
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(5)<module>()
-> from tkinter import simpledialog, messagebox
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(8)<module>()
-> import cProfile
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(11)<module>()
-> import pstats
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(12)<module>()
-> from pstats import SortKey
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(15)<module>()
-> quantity_dictionary = dict()
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(18)<module>()
-> price_dictionary = {"rose":50, "sunflower":40, "jasmine":60, "aloevera":50,
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(19)<module>()
-> "moneyplant":40, "jade":60, "adenium":100, "cactus":300,
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(20)<module>()
-> "palm":200}
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(18)<module>()
-> price_dictionary = {"rose":50, "sunflower":40, "jasmine":60, "aloevera":50,
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(24)<module>()
-> def buyrose():
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(29)<module>()
-> def buysunflower():
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(34)<module>()
-> def buyjasmine():
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(39)<module>()
-> def buyaloevera():
(Pdb) n
> i:\##visheshs##\pp python project\billgenerator.py(44)<module>()
```


C:\Windows\system32\cmd.exe - python -m pdb billGenerator.py
Nursery
FLOWERY PLANT
DECORATION PLANT
DESERT PLANT
BILL

```
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(39)<module>()
-> def buyaloevera():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(44)<module>()
-> def buymoneyplant():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(50)<module>()
-> def buyjade():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(55)<module>()
-> def buyadenium():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(60)<module>()
-> def buycactus():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(66)<module>()
-> def buypalm():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(76)<module>()
-> def gotoflower():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(129)<module>()
-> def gotodecoration():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(184)<module>()
-> def gotodesert():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(236)<module>()
-> def billf():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(684)<module>()
-> def main():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(723)<module>()
-> if __name__ == "__main__":
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(728)<module>()
-> cProfile.run("main()", "output.dat")
(Pdb) n
```

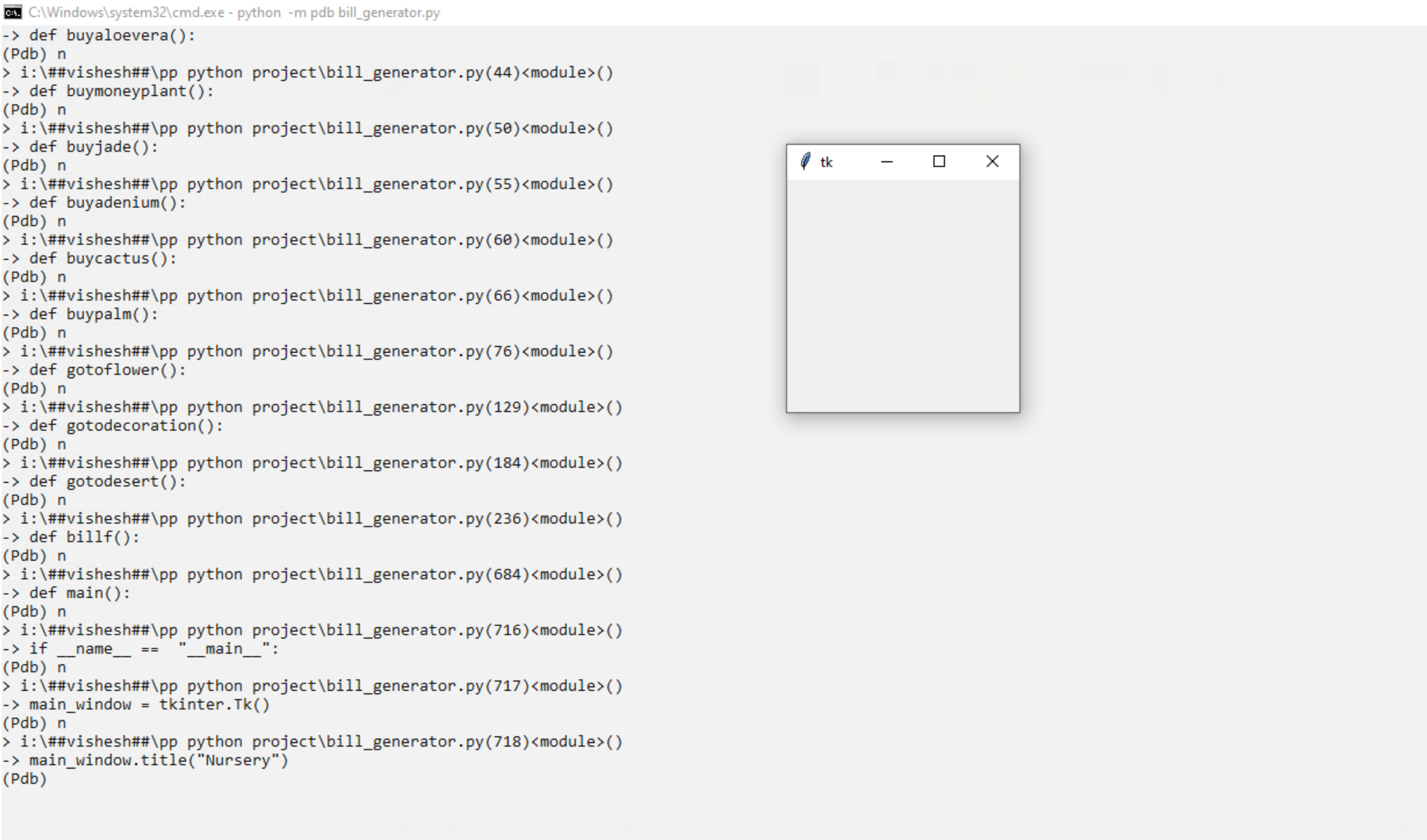

C:\Windows\system32\cmd.exe - python -m pdb billGenerator.py
Flowers
Nursery
FLOWERY PLANT
DECORATION PLANT
DESERT PLANT
BILL

```
> i:\##vishesh##\pp python project\billgenerator.py(44)<module>()
-> def buymoneyplant():
(Pdb) n
> i:\##vishesh##\pp python project\billgenerator.py(50)<module>()
-> def buyjade():
(Pdb) n
> i:\##vishesh##\pp
-> def buyadenium()
(Pdb) n
> i:\##vishesh##\pp
-> def buycactus():
(Pdb) n
> i:\##vishesh##\pp
-> def buypalm():
(Pdb) n
> i:\##vishesh##\pp
-> def gotoflower()
(Pdb) n
> i:\##vishesh##\pp
-> def gotodecorati
(Pdb) n
> i:\##vishesh##\pp
-> def gotodesert()
(Pdb) n
> i:\##vishesh##\pp
-> def billf():
(Pdb) n
> i:\##vishesh##\pp
-> def main():
(Pdb) n
> i:\##vishesh##\pp
-> if __name__ ==
(Pdb) n
> i:\##vishesh##\pp
-> cProfile.run("ma
(Pdb) n
Exception in Tkinte
Traceback (most rece
  File "C:\Users\Pa                                                      ki
    return self.func(*args)
  File "i:\##vishesh##\pp python project\billgenerator.py", line 87, in gotoflower
    image = fphoto, compound = "left", bg = "white",
NameError: name 'fphoto' is not defined
```



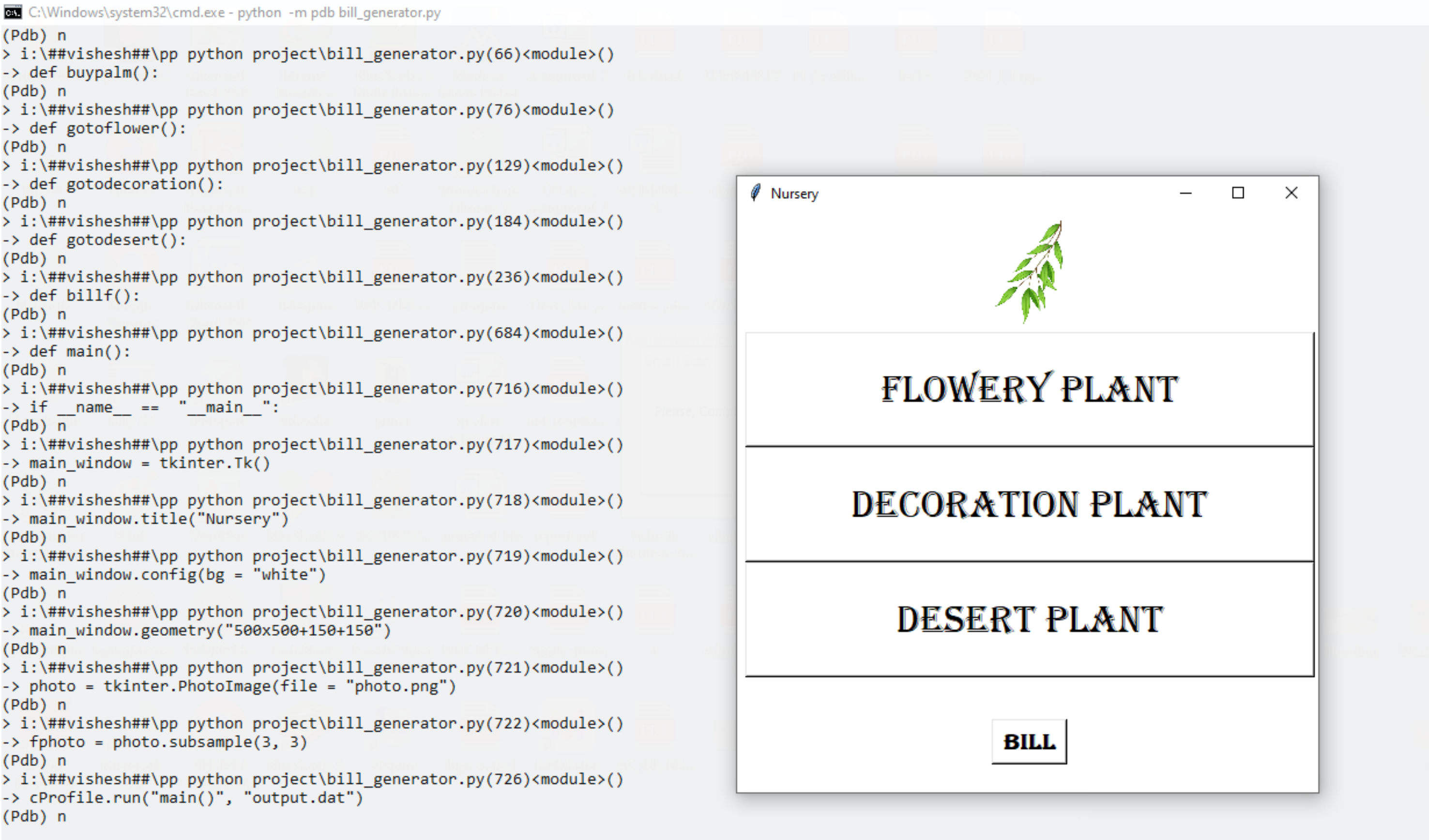
C:\Windows\system32\cmd.exe - python -m pdb bill_generator.py

```
I:\##VISHESH##\pp python project>python -m pdb bill_generator.py
> i:\##visheshl##\pp python project\bill_generator.py(2)<module>()
-> import tkinter
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(5)<module>()
-> from tkinter import simpledialog, messagebox
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(8)<module>()
-> import cProfile
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(11)<module>()
-> import pstats
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(12)<module>()
-> from pstats import SortKey
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(15)<module>()
-> quantity_dictionary = dict()
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(18)<module>()
-> price_dictionary = {"rose":50, "sunflower":40, "jasmine":60, "aloevera":50,
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(19)<module>()
-> "moneyplant":40, "jade":60, "adenium":100, "cactus":300,
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(20)<module>()
-> "palm":200}
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(18)<module>()
-> price_dictionary = {"rose":50, "sunflower":40, "jasmine":60, "aloevera":50,
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(24)<module>()
-> def buyrose():
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(29)<module>()
-> def buysunflower():
(Pdb) n
> i:\##visheshl##\pp python project\bill_generator.py(34)<module>()
-> def buyjasmine():
(Pdb)
> i:\##visheshl##\pp python project\bill_generator.py(39)<module>()
-> def buyaloevera():
(Pdb) n
```



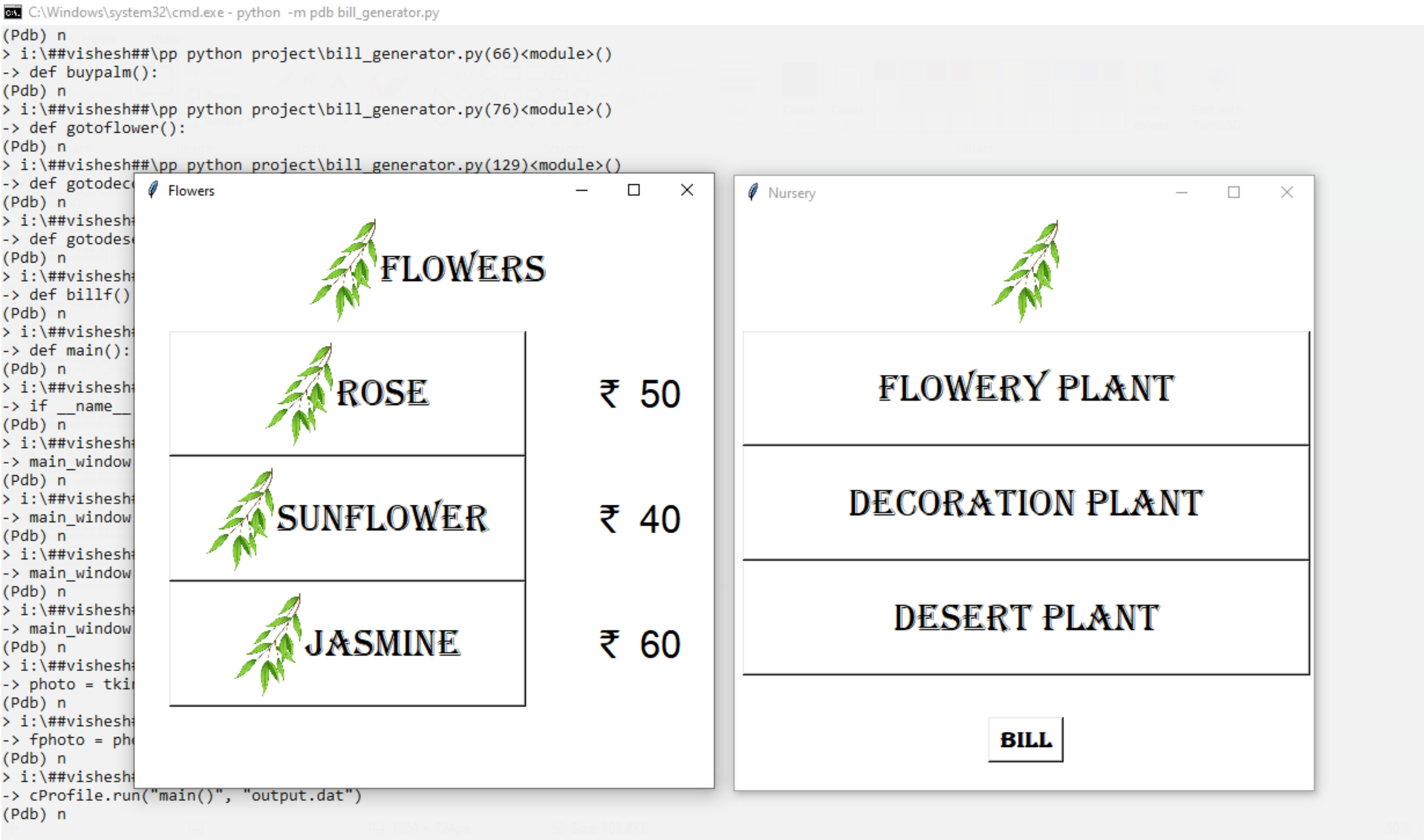
C:\Windows\system32\cmd.exe - python -m pdb bill_generator.py

```
-> def buyaloevera():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(44)<module>()
-> def buymoneyplant():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(50)<module>()
-> def buyjade():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(55)<module>()
-> def buyadenium():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(60)<module>()
-> def buycactus():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(66)<module>()
-> def buypalm():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(76)<module>()
-> def gotoflower():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(129)<module>()
-> def gotodecoration():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(184)<module>()
-> def gotodesert():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(236)<module>()
-> def billf():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(684)<module>()
-> def main():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(716)<module>()
-> if __name__ == "__main__":
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(717)<module>()
-> main_window = tkinter.Tk()
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(718)<module>()
-> main_window.title("Nursery")
(Pdb)
```



C:\Windows\system32\cmd.exe - python -m pdb bill_generator.py

```
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(66)<module>()
-> def buypalm():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(76)<module>()
-> def gotoflower():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(129)<module>()
-> def gotodecoration():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(184)<module>()
-> def gotodesert():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(236)<module>()
-> def billf():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(684)<module>()
-> def main():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(716)<module>()
-> if __name__ == "__main__":
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(717)<module>()
-> main_window = tkinter.Tk()
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(718)<module>()
-> main_window.title("Nursery")
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(719)<module>()
-> main_window.config(bg = "white")
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(720)<module>()
-> main_window.geometry("500x500+150+150")
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(721)<module>()
-> photo = tkinter.PhotoImage(file = "photo.png")
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(722)<module>()
-> fphoto = photo.subsample(3, 3)
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(726)<module>()
-> cProfile.run("main()", "output.dat")
(Pdb) n
```



```
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(66)<module>()
-> def buypalm():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(76)<module>()
-> def gotoflower():
(Pdb) n
> i:\##vishesh##\pp python project\bill_generator.py(129)<module>()
-> def gotodec
(Pdb) n
> i:\##vishesh
-> def gotodes
(Pdb) n
> i:\##vishesh
-> def billf()
(Pdb) n
> i:\##vishesh
-> def main():
(Pdb) n
> i:\##vishesh
-> if __name__
(Pdb) n
> i:\##vishesh
-> main_window
(Pdb) n
> i:\##vishesh
-> main_window
(Pdb) n
> i:\##vishesh
-> main_window
(Pdb) n
> i:\##vishesh
-> main_window
(Pdb) n
> i:\##vishesh
-> photo = tki
(Pdb) n
> i:\##vishesh
-> fphoto = ph
(Pdb) n
> i:\##vishesh
-> cProfile.run("main()", "output.dat")
(Pdb) n
```

MISCELLANEOUS DATA

Starting Date : 5 November, 2022
End Date : 13 November, 2022
Total time required : 9 Days
Total line of code : 733
No of functions : 15
Language used : Python
Profiller used : cProfile
Debugger used : pdb
Program Title : Bill Generator