Name: Maftuna Sharabbaeva

ID: U1510067

Group: 001

Homework#2 Solutions

```
Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/Maftuna/Desktop/homeStore.py', wdir='C:/Users/Maftuna/Desktop')
                        *** Store info ***

        Name: Home-Sore         ID: 456
        Adress: Tashkent city   Tel: +9989897.
                        *** Customer info ***

        Name: Maftuna,          Address: Yangiyul district
        Purchasing_Points: 3    SSN: 123
        Memberships is friend of staff
        Name: Ahmadjon,         Address: Andijon
        Purchasing_Points: 2    SSN: 255
        Memberships is brother of staff
                        *** Staff info ***

        Name: Yo'ldosh aka,     ID: 177
        Address: Navoiy district        SSN: 565
        Jobtitle: Seller        Salary:  $456
        Name: Yulduz xola,      ID: 789
        Address: Buhoro city    SSN: 666
        Jobtitle: halper of seller      Salary:  $564


What is your name?Maftuna
Hi, Maftuna, welcome to home store.

        Info of staff and customer:
                Staff member name:      Customer Store ID:      Customer name:

                Ahmadjon                1238            Maftuna

                Product code:   Name:   Price:          product description:    points          Total Price     quantity
                8787            Cola            $ 5             US              1               58
```

Screenshots of my program constinues on next page->

```
Banana
Price: $4
Stock: 6

Apple
Price: $2
Stock: 0

Orange
Price: $1.5
Stock: 32

Pear
Price: $3
Stock: 15

You have: $117


What fruit do you want?
                        Banana

Sorry, we don't have that, look at the menu.


What fruit do you want?
                        banana


How many bananas do you want?
                              2


Are you sure? That will be $8.
        -Yes
        -No
        yes

Thank you for the business!


Do you want anything else?
        -Yes
        -No
        yes

Banana
Price: $4
Stock: 4

Apple
Price: $2
Stock: 0
```

Screenshots of my program constinues on next page->

```
Orange
Price: $1.5
Stock: 32

Pear
Price: $3
Stock: 15

You have: $117


What fruit do you want?
                        pear


How many pears do you want?
                              1


Are you sure? That will be $3.
        -Yes
        -No
        No


What fruit do you want?
                       orange


How many oranges do you want?
                              1


Are you sure? That will be $1.5.
        -Yes
        -No
        yes

Thank you for the business!


Do you want anything else?
        -Yes
        -No
        no

Okay, bye.
```

Source code is:

```
# -*- coding: utf-8 -*-
"""
Created on Wed Feb 13 13:54:46 2019

@author: Maftuna
"""

class Store:
    def __init__(self, ID, Name, Address, Tel):
        self.__Name=Name
        self.__ID=ID
        self.__Address=Address
        self.__Tel=Tel

    @property
    def Name(self):
        return self.__Name

    @Name.setter
    def Name(self, name_value):
        self.__Name=name_value

    @property
    def ID(self):
        return self.__ID

    @ID.setter
    def ID(self, id_value):
        self.__ID=id_value
```

```
    @property
    def Address(self):
        return self.__Address

    @Address.setter
    def Address(self, address_value):
        self.__Address=address_value

    @property
    def Tel(self):
        return self.__Tel

    @Tel.setter
    def Name(self, tel_value):
        self.__Tel=tel_value




    def __str__(self):
        return ('\t Name: {} \t ID: {} \n \t Adress: {} \t Tel: +9989{}.'.format(self.__Name, self.__ID, self.__Address,
self.__Tel))




class Staff:
    def __init__(self, ID, SSN, Name, Address, JobTitle, salary):
        self.__ID=ID
        self.__SSN=SSN
        self.__Name=Name
```

```
    self.__Address=Address
    self.__JobTitle=JobTitle
    self.__salary=salary

@property
def Name(self):
    return self.__Name

@Name.setter
def Name(self, name_value):
    self.__Name=name_value

@property
def ID(self):
    return self.__ID

@ID.setter
def ID(self, id_value):
    self.__ID=id_value

@property
def SSN(self):
    return self.__SSN

@SSN.setter
def SSN(self, ssn_value):
    self.__SSN=ssn_value

@property
def Address(self):
```

```
        return self.__Address

    @Address.setter
    def Address(self, address_value):
        self.__Address=address_value

    @property
    def JobTitle(self):
        return self.__JobTitle

    @JobTitle.setter
    def JobTitle(self, jobTitle_value):
        self.__JobTitle=jobTitle_value

    @property
    def salary(self):
        return self.__salary

    @salary.setter
    def salary(self, salary_value):
        self.__salary=salary_value




    def __str__(self):
        return ('\t Name: {}, \t ID: {} \n \t Address: {} \t SSN: {} \n \t Jobtitle: {} \t Salary:  ${}'.format(self.__Name,
self.__ID,
                    self.__Address, self.__SSN, self.__JobTitle, self.__salary))
```

```
class Customer:
    def __init__(self, SSN, Name, Address, Purchasing_Points, Tel, Memberships=None):
        self.__SSN=SSN
        self.__Name=Name
        self.__Address=Address
        self.__Purchasing_Points=Purchasing_Points
        self.__Tel=Tel
        self.__Memberships=Memberships or []

    @property
    def SSN(self):
        return self.__SSN

    @SSN.setter
    def SSN(self, ssn_value):
        self.__SSN=ssn_value

    @property
    def Address(self):
        return self.__Address

    @Address.setter
    def Address(self, address_value):
        self.__Address=address_value

    @property
    def Purchasing_Points(self):
        return self.__Purchasing_Points

    @Purchasing_Points.setter
```

```
    def Purchasing_Points(self, purchasing_points_value):
        self.__Purchasing_Points=purchasing_points_value

    @property
    def Name(self):
        return self.__Name

    @Name.setter
    def Name(self, name_value):
        self.__Name=name_value

    @property
    def Memberships(self):
        return self.__Memberships

    @Memberships.setter
    def Memberships(self, memberships_value):
        self.__Memberships=memberships_value



    def __str__(self):
        return ('\t Name: {}, \t Address: {} \n \t Purchasing_Points: {} \t SSN: {} \n \t Memberships is {}
'.format(self.__Name, self.__Address,
                    self.__Purchasing_Points, self.__SSN, self.__Memberships))


class Product:
    def __init__(self, ProductCode, Name, Description, Price, Points):
        self.__ProductCode=ProductCode
        self.__Description=Description
        self.__Price=Price
```

```
    self.__Points=Points
    self.__Name=Name

@property
def ProductCode(self):
    return self.__ProductCode

@ProductCode.setter
def ProductCode(self, productCode_value):
    self.__ProductCode=productCode_value

@property
def Description(self):
    return self.__Description

@Description.setter
def Description(self, description_value):
    self.__ProductCode=description_value

@property
def Name(self):
    return self.__Name

@Name.setter
def Name(self, name_value):
    self.__Name=name_value

@property
def Price(self):
    return self.__Price
```

```
    @Price.setter
    def Price(self, price_value):
        self.__Price=price_value

    @property
    def Points(self):
        return self.__Points

    @Points.setter
    def Points(self, points_value):
        self.__Points=points_value
    def __str__(self):
        return ('\t ProductCode: {} \t Name: {} \n \t Description: {} \t Price: ${} \n \t Jobtitle: {} \t Salary:
{}'.format(self.__ProductCode, self.__Name,
                self.__Description, self.__Price, self.__Points))



class Order:
    def __init__(self, Store_object, Customer_Object, Staff_Object, Product_Objects, Quantity):
        self.__Store_object=Store_object
        self.__Customer_Object=Customer_Object
        self.__Staff_Object=Staff_Object
        self.__Product_Objects=Product_Objects or []
        self.__Quantity=Quantity

    @property
    def Quantity(self):
        return self.__Quantity
```

```
    @Quantity.setter
    def Quantity(self, quantity_value):
        self.__Quantity=quantity_value
    Product_Objects=Product(2345, 'Bread', 'Qoqon bread', 20, 3)
    def addProduct(product_object):
        Product_Objects =[]
        for x in product_object:
            Product_Objects.append(x)



    def printReceipt(self):
        money=117
        Store_object=Store(1238, 'Home_store', 'Xasanov street', 32145)
        Customer_Object=Customer(1458, 'Maftuna', 'Tashkent city', 2, 56565, ['regular customer', 'sister of
staff'])
        Staff_Object=Staff(555, 458, 'Ahmadjon', 'Yunosob district', 'Seller', 2564)
        Product_Objects=Product(8787, 'Cola', 'US', 5, 1)
        stock={
            'banana':6,
            'apple':0,
            'orange':32,
            'pear':15,}
        prices={
            'banana': 4,
            'apple':2,
            'orange':1.5,
            'pear':3}
        points={
            'banana': 2,
            'apple': 1,
```

```
        'orange': 1,
        'pear': 3}
name=input('What is your name?')
print('Hi, %s, welcome to home store. '%(name))
print()

def uppercase(x):
    return x[0].upper()+x[1:]

def menu():
    for fruit in prices:
        print(uppercase(fruit))
        print('Price: $%s'%(prices[fruit]))
        print('Stock: %s'%(stock[fruit]))
        print()
    print('You have: $%s'%(money))
    print()
print("\t Info of staff and customer:")
print("\t\t Staff member name: \t Customer Store ID: \t Customer name: \t \n")
print("\t\t",Staff_Object.Name, " \t\t", Store_object.ID, " \t\t", Customer_Object.Name, " \t\t\n")
print("\t\t Product code: \t Name: \t Price: \t product description: \t points \t Total Price  \t quantity")
print("\t\t",Product_Objects.ProductCode, "\t\t", Product_Objects.Name, "\t\t $", Product_Objects.Price,
     "\t\t",Product_Objects.Description, "\t\t",Product_Objects.Points, "\t\t",self.Quantity)

def ask_fruit(money):
    fruit=input('''What fruit do you want?
                ''')
    print()
    if fruit in stock:
        if stock[fruit]>0:
```

```
            ask_amount(fruit,money)
        else:
            print('''Sorry, %ss are out of stock
                '''%(fruit))
            ask_fruit(money)
    else:
        print('''Sorry, we don\'t have that, look at the menu.
            ''')
        ask_fruit(money)

def ask_amount(fruit,money):
    amount=int(input('''How many %ss do you want?
                '''%(fruit)))
    print()
    if amount<=0:
        print('''At least buy one.''')

        ask_amount(fruit,money)
    elif stock[fruit]>=amount:
        sell(fruit,amount,money)
    else:
        print('''Sorry, we don\'t have that many %ss.
            '''%(fruit))
        ask_amount(fruit,money)




def sell(fruit,amount,money):
    cost=prices[fruit]*amount
    confirmation=input('''Are you sure? That will be $%s.
```

```
-Yes
-No
'''%(cost)).lower()
    print()
    if confirmation=='yes':
        money-=cost
        print('''Thank you for the business!
            ''')
        stock[fruit]=stock[fruit]-amount
        ask_again()
    elif confirmation=='no':
        ask_fruit(money)
    else:
        print('''Answer me.
            ''')
        sell(fruit,amount,money)


def ask_again():
    answer=input('''Do you want anything else?
-Yes
-No
''').lower()
    print()
    if answer=='yes':
        menu()
        ask_fruit(money)
    elif answer=='no':
        print('Okay, bye.')
    else:
```

```
            print('Answer me.')
            ask_again()



        menu()
        ask_fruit(money)
        #sell('banana', 2, 125)
        #ask_amount("apple",1313)
        #sell()
        #ask_again()
print("\t\t\t *** Store info *** \n")
storeObject=Store(456, "Home-Sore", "Tashkent city", 897)
print(storeObject)

print("\t\t\t *** Customer info *** \n")
customer1=Customer(123, "Maftuna", "Yangiyul district", 3, 7894, "friend of staff")
print(customer1)

customer2=Customer(255, "Ahmadjon", "Andijon", 2, 45678, "brother of staff")
print(customer2)

print("\t\t\t *** Staff info *** \n")
staff1=Staff(177, 565, "Yo'ldosh aka", "Navoiy district", "Seller", 456)
print(staff1)

staff2=Staff(789, 666, "Yulduz xola", "Buhoro city", "halper of seller", 564)
print(staff2)

order_object=Order(storeObject, customer1, staff1, ['banana', 'apple', 'orange', 'pear'], 58)
print(order_object.printReceipt())
```