# SINIFDE YAZILAN PROYEKTE ELAVE OLARAQ ,

#1.QUANTITY YOXLANILSIN,

#2.DELETE MEHSULU SILMEK

#3.CHANGE ITEM QUANTITY

import os

clear = lambda: os.system('cls')

def s():

print()

class Product:

def \_\_init\_\_(self,name,price):

self.setName(name)

self.setPrice(price)

def getName(self):

return self.\_\_name

def getPrice(self):

return self.\_\_price

def setName(self,name):

if (name!=""):

self.\_\_name=name

else:

raise Exception("Please, fill your name.")

def setPrice(self,price):

if(price>=0):

self.\_\_price=price

else:

raise Exception("Price should be more than 0.")

def showInfo(self):

print("Name of the product : ",self.getName())

print("Price : ",self.getPrice()," $")

class ProductItem:

Id=0

def \_\_init\_\_(self,product,quantity):

ProductItem.Id+=1

self.\_\_MyId=ProductItem.Id

self.product=product

self.quantity=quantity

def show(self):

print("ID : ",self.\_\_MyId)

self.product.showInfo()

def getMyId(self):

return self.\_\_MyId

class Stock:

def \_\_init\_\_(self,items):

self.\_\_productItems=items

def getProductItems(self):

return self.\_\_productItems

def addNewItem(self,product,quantity):

item=ProductItem(product,quantity)

self.\_\_productItems.append(item)

print("\"",product.getName(),"\" added successfully!")

def getProductItemById(self,id):

for p in self.\_\_productItems:

if(p.getMyId()==id):

return p

raise Exception("\nThere is no item with this ID.")

def deleteItem(self,id):

for x in self.\_\_productItems:

if(x.getMyId()==id):

self.\_\_productItems.remove(x)

print("Product removed successfully!")

def changeQuantity(self,id,quantity):

for x in self.\_\_productItems:

if(x.getMyId()==id):

x.quantity=quantity

print("Quatity of the product changed successfully!")

def showAll(self):

for p in self.\_\_productItems:

s()

print("==========================================")

p.show()

print("Quantity : ",p.quantity)

print("==========================================")

class Controller:

@staticmethod

def Start():

p1=Product("GALAXY S21",1899)

item1=ProductItem(p1,100)

p2=Product("IPHONE 13 PRO MAX",3500)

item2=ProductItem(p2,10)

items=[item1,item2]

stock=Stock(items)

print("MAIN MENU")

print("\nWelcome To The Program!")

print("\nHere is the all products : ")

stock.showAll()

select=input("\nClick 1, to add a new item\nClick 2, to purchase an item\nClick 3, to delete product by ID\nClick 4, to change the quantity of the product\n- ")

while True:

if(select=="1"):

clear()

s()

name=input("Enter name of product : ").strip().upper()

price=float(input("Enter price of product : "))

product=Product(name,price)

quantity=int(input("Enter quantity for product : "))

clear()

stock.addNewItem(product,quantity)

print("\nHere is the all products : ")

stock.showAll()

break

elif(select=="2"):

clear()

s()

id=int(input("Enter product ID : "))

i=0

for p in items:

if(p.getMyId()==id):

i+=1

break

if (i==0):

raise Exception("There is no product with this ID.")

quantity=int(input("Enter quantity : "))

try:

productitem=stock.getProductItemById(id)

if (productitem.quantity-quantity<0):

print("\nThere are no",quantity,"\b",productitem.product.getName().strip(),"\bs in the stock.")

break

else:

productitem.quantity-=quantity

clear()

print("\"",productitem.product.getName(),"\" sold with this quantity : ",quantity)

stock.showAll()

break

except Exception as ex:

print("Error : ",ex)

elif(select=="3"):

clear()

s()

id=int(input("Enter product ID : "))

i=0

for p in items:

if(p.getMyId()==id):

i+=1

break

if (i==0):

raise Exception("There is no product with this ID.")

clear()

for p in items:

if (p.getMyId()==id):

s()

print("It is the product with the ID",id)

s()

print("==========================================")

p.show()

print("Quantity : ",p.quantity)

print("==========================================")

areYouSure = input("\nAre you sure you want to delete this product?\nYes (1) | No (2) : ")

while True:

if (areYouSure == "1"):

clear()

stock.deleteItem(id)

print("\nHere is the all products :")

stock.showAll()

break

elif(areYouSure == "2"):

clear()

Controller.Start();

break

elif(areYouSure == ""):

areYouSure = input("\nPlease, enter \'Yes\' or \'No\'\nYes (1) | No (2) : ")

else:

areYouSure = input("\nPlease, enter \'Yes\' or \'No\'\nYes (1) | No (2) : ")

break

elif (select == "4"):

clear()

s()

id=int(input("Enter product ID : "))

i=0

for p in items:

if(p.getMyId()==id):

i+=1

break

if (i==0):

raise Exception("There is no product with this ID.")

for p in items:

if (p.getMyId() == id):

break

else:

print("\nThere is no product with this ID.")

break

for p in items:

if (p.getMyId()==id):

s()

print("It is the product with the ID",id)

s()

print("==========================================")

p.show()

print("Quantity : ",p.quantity)

print("==========================================")

quantity=int(input("\nEnter the quantity : "))

clear()

areYouSure = input("\nAre you sure you want the quantity of this product?\nYes (1) | No (2) : ")

while True:

if (areYouSure == "1"):

clear()

stock.changeQuantity(id,quantity)

print("\nHere is the all products :")

stock.showAll()

break

elif(areYouSure == "2"):

clear()

Controller.Start();

break

elif(areYouSure == ""):

areYouSure = input("\nPlease, enter \'Yes\' or \'No\'\nYes (1) | No (2) : ")

else:

areYouSure = input("\nPlease, enter \'Yes\' or \'No\'\nYes (1) | No (2) : ")

break

elif (select==""):

select=input("Please, enter 1 or 2 or 3 or 4 or 5 : ")

else:

select=input("Please, enter 1 or 2 or 3 or 4 or 5 : ")

Controller.Start();