ONLINE SHOPPING APPLICATION

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import random
import string
from datetime import date
from prettytable import PrettyTable
my_dict={
    "z_base":{  1:["abc@zoho.com","ApipNbjm","rahul","9922992299"],
                2:["123@zoho.com","Cboljoh","Anitha","8564119904"],
                3:["user@zoho.com","kbwb22","Arpan","9872345693"]
             },
    "e_base":{1:["Mobile","Apple","6s","60000","10"],
              2:["Mobile","Motorala","G","12000","5"],
              3:["Laptop","HP","Elite","56000","20"],
              4:["Tablet","Google","ChromeBook","80000","12"],
              },
    "order":{}
}
def invoice():
    a = "".join(random.choices(string.digits, k=6))
    return a
def discount():
    a=random.randint(20,30)
    return a
def discount_code():
    a =
"".join(random.choices(string.ascii_uppercase+string.ascii_lowercase+string.d
igits,k=6))
    return a

def task_1():
    my=PrettyTable(["userName","encrypted","name","mobile"])
    for key,value in my_dict["z_base"].items():
        userName,encrypted,name,mobile=value
        my.add_row([userName,encrypted,name,mobile])
    print(my)


def task_2():
    my_1=PrettyTable(["category","brand","model","price","stock"])
    for key,value in my_dict["e_base"].items():
        category,brand,mobile,price,stock=value
        my_1.add_row([category,brand,mobile,price,stock])
    print(my_1)


def task_3():
    input_1=list(input("Enter the Email_id/password/name/mobile_no(separated
by space): ").split())
    flag=check(input_1[0])
    t,x=encryption(list(input_1[1]))
    if t==1 and flag==1:
        temp=input("Re_entry the password: ")
        while temp!=input_1[1]:
            temp=input("Password is in-correct: ")
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        print("Password is matched!!...")
        input_1[1]="".join(x)
        sign_up(input_1)
    if flag==0:
        print("User is already existed")
    if t==0 and flag==1:
        print("password must contains 1 Uppercase, 1 lowercase, 1
digits!!!...")


def check(x):
    for i in range(1, len(my_dict["z_base"]) + 1, 1):
        if x in my_dict["z_base"][i]:
            return 0
    return 1

def sign_up(input_1):
    f = 0
    for i in range(1, len(my_dict["z_base"]) + 1, 1):
        if input_1[0] in my_dict["z_base"][i]:
            f += 1
            print("User is already existed")
    if f == 0:
        my_dict["z_base"][len(my_dict["z_base"]) + 1] = input_1
        print("Updated the new sign up!!...")

def encryption(x):
    low=0;up=0;num=0
    for i in range(0,len(x),1):
        if x[i].islower():
            if ord(x[i])>=97 and ord(x[i])<122:
                x[i]=chr(ord(x[i])+1)
            if ord(x[i])==122:
                x[i]="a"
            low+=1
        if x[i].isupper():
            if ord(x[i])>=65 and ord(x[i])<90:
                x[i]=chr(ord(x[i])+1)
            if ord(x[i])==90:
                x[i]="A"
            up+=1
        if x[i].isnumeric():
            if ord(x[i])>=48 and ord(x[i])<57:
                x[i]=chr(ord(x[i])+1)
            if ord(x[i])==57:
                x[i]="0"
            num+=1
    if low!=0 and up!=0 and num!=0:
        return 1,x
    else:
        return 0,x
def task_5():
    f=0
    x,y=input("Enter the userid and password: ").split()
    temp=check(x)
    temp_1=check(y)
    if temp==1:
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        print("User doesn't exist!!")
        i=int(input("If you want you signup(1/0): "))
        if i==1:
            task_3()
    if temp==0 and temp_1==0:
        print("login successfully")
        f=1
    if temp==0 and temp_1==1:
        t1,t2=encryption(list(y))
        t2="".join(t2)
        t3=check(t2)
        if temp==0 and t3==0:
            print("login successfully")
            f=1
    if temp==0 and temp_1==1 and f==0:
        print("Password is incorrect")
    if f==1:
        task_6()
def task_6():
    my_1 = PrettyTable(["Row","category", "brand", "model", "price"])
    for key, value in my_dict["e_base"].items():
        category, brand, mobile, price, stock = value
        i=key
        my_1.add_row([i,category, brand, mobile, price])
    print(my_1)
    no_of()
def no_of():
    no=1;p=0
    while 1:
        prices = 0
        temp = int(input("Pick the row to buy the product: "))
        qu = int(input("NO of product:  "))
        my_dict["e_base"][temp][-1]=int(my_dict["e_base"][temp][-1])-qu
        prices += int(my_dict["e_base"][temp][-2]) * qu
        my_dict["order"][no] = my_dict["e_base"][temp][:-1]
        my_dict["order"][no].append(qu)
        my_dict["order"][no].append(prices)
        no+=1
        close=int(input("if you want more(1/0): "))
        p+=prices
        if close==0:
            break
def task_7(z):
    x,y=input("Enter the admin username and password").split()
    if x=="admin@zoho.com" and y==z:
        print("login successfully")
        task_2()
        print("--------------Changes the stocks one by one--------------")
        my_1 = PrettyTable(["category", "brand", "model", "price", "stock"])
        for key, value in my_dict["e_base"].items():
            category, brand, mobile, price, stock = value
            stock=input("Enter the stock to be changed: ")
            my_1.add_row([category, brand, mobile, price, stock])
        print(my_1)
    else:
        print("incorrect username and password")
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def task_10(x):
    my_1 = PrettyTable(["category", "brand", "model", "price", "qn","total
Prices"])
    p=0
    for key, value in my_dict["order"].items():
        category, brand, mobile, price, stock,total_prices = value
        if x[0]==brand and x[1]==mobile:
            total_prices=total_prices-(total_prices*10)//100
        p+=total_prices
        my_1.add_row([category, brand, mobile, price, stock,total_prices])
    print(my_1)
    print("Total prices: ",p)
    print("Ordered date: ",date.today())
    print("Invoice number: ",invoice())
    if len(my_dict["order"])>=3 or p>=20000:
        t1=discount_code()
        print("Discount code: ",t1)
        dic_code=input("Enter the discount code: ")
        if t1==dic_code:
            temp=discount()
            p=p-(p*int(temp))//100
            print("After discount: ",p)
        else:
            print("Invalid discount code!!")
def highest_stock():
    mini=0
    for key, value in my_dict["e_base"].items():
        category, brand, mobile, price, stock = value
        if int(stock)>mini:
            mini=int(stock)
            k=[brand, mobile]
    return k

y="xyzzy"
entry=input("--------customer(0)/Admin(1)-------\n")
if entry=="1":
    while 1:
        try:
            key = highest_stock()
            task = int(input("Enter the task number: "))
            if task == 7:
                task_7(y)
            else:
                print("Invaild task!!")
        except ValueError:
            break
if entry=="0":
    while 1:
        try:
            key=highest_stock()
            task=int(input("Enter the task number: "))
            if task==7:
                task_7(y)
            if task==1:
                task_1()
            if task==2:
                task_2()
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            if task==3:
                task_3()
            if task==5:
                task_5()
            if task==10:
                task_10(key)
            else:
                print("Invaild task!!")
        except ValueError:
            break
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