import json

x = {1:{"name":"pulses", "quantity":30, "price":210},

2:{"name":"fruits", "quantity":50, "price":400},

3:{"name":"vegetables", "quantity":10, "price":100},

4:{"name":"eggs", "quantity":50, "price":350},

5:{"name":"chicken", "quantity":40, "price":500}

}

def Read():

fd=open('inventory.json','r')

global y

y=fd.read()

x=json.loads(y)

fd.close()

def Display():

Read()

for i in x.keys():

print("id="+str(i))

print(x[i])

def Add():

print("Enter the id")

id=int(input())

a={"name":input("Enter name, quantity, price "), "quantity":int(input()), "price":int(input())}

x[id]=a

Update()

def Update():

fd=open('inventory.json','w')

y=json.dumps(x,indent=4)

fd.write(y)

fd.close()

def Purchase():

item=input("Enter the item name and quantity ")

q=int(input())

f=0

Read()

for i in range(len(x)):

id=i+1

if x[id]['name']==item:

f=1

if x[id]['quantity']>=q:

x[id]['quantity']-=q

Update()

print("Cost = "+str(x[id]['price']\*q)+"\n")

else:

print("Not Available")

print(str(x[id]['quantity'])+" are available.\n")

if f==0:

print("Invalid item")

def MaxAmount():

Read()

item = 0

amount = 0

for i in range(len(x)):

id=i+1

amount+=(x[id]['price']\*x[id]['quantity'])

item+=x[id]['quantity']

print("Total no. of items available = "+str(item)+"\nTotal Cost = "+str(amount)+"\n")

Update()

while(1):

print("Select the function to perform \n 1.Read the contents \n 2.Add a new item \n 3.Purchase an item \n 4.Display Total No. of Items and Total Cost \n press any key to exit ")

n=int(input())

if n==1:

Display()

elif n==2:

Add()

elif n==3:

Purchase()

elif n==4:

MaxAmount()

else:

break