

inventory management system

product

```
product={
1001: {'name': 'dairymilk_30',
      'catogery': 'chocolate',
      'quantity': 100,
      'price': 30,
      'man_date': '04/2023',
      'exp_date': '01/2024'}
}
print(product)
```

```
{1001: {'name': 'dairymilk_30', 'catogery': 'chocolate', 'quantity':
100, 'price': 30, 'man_date': '04/2023', 'exp_date': '01/2024'}}
```

product_adding

```
product_id=int(input("enter product id:"))
nam=str(input("enter name of product:"))
cat=str(input("enter category of product:"))
qua=int(input("enter quantity of product:"))
pr=int(input("enter price of product:"))
man_d=str(input("enter manifactory date of product:(MM/YYYY)"))
exp_d=str(input("enter expiry date of product:(MM/YYYY)"))
temp={}
temp['name']=nam
temp['catogery']=cat
temp['quantity']=qua
temp['price']=pr
temp['man_date']=man_d
temp['exp_date']=exp_d
product[product_id]=temp
print(product)
```

```
enter product id:1002
enter name of product:5Star
enter category of product:chocolate
enter quantity of product:50
enter price of product:10
enter manifactory date of product:(MM/YYYY)04/2024
enter expiry date of product:(MM/YYYY)12/2024
{1001: {'name': 'dairymilk_30', 'catogery': 'chocolate', 'quantity':
100, 'price': 30, 'man_date': '04/2023', 'exp_date': '01/2024'}, 1002:
{'name': '5Star', 'catogery': 'chocolate', 'quantity': 50, 'price':
10, 'man_date': '04/2024', 'exp_date': '12/2024'}}
```

product deleting

```
product_id=int(input("Enter product id to delete:"))
del product[product_id]
print(product)
```

Enter product id to delete:1001

```
{1002: {'name': '5Star', 'catogery': 'chocolate', 'quantity': 50,
'price': 10, 'man_date': '04/2024', 'exp_date': '12/2024'}}
```

product changing

```
product_id=int(input("Enter product id to change:"))
change=str(input("Enter item to change value:"))
if change=='quantity' or change=='price':
    value=int(input("enter value for change:"))
else:
    value=str(input("enter value for change:"))
product[product_id][change]=value
print(product)
```

Enter product id to change:1002

Enter item to change value:quantity

enter value for change:100

```
{1002: {'name': '5Star', 'catogery': 'chocolate', 'quantity': 100,
'price': 10, 'man_date': '04/2024', 'exp_date': '12/2024'}}
```

sale

```
sales={1: {'customer_name': 'vaishnavi', 'Prodcut_id': 1002,
'product_name': '5Star', 'Bill': 30, 'Quantity': 3, 'price': 10}}
```

```
print("-"*30)
```

```
for i in product.keys():
```

```
    print(i, product[i])
```

```
print("-"*30)
```

```
print("\n")
```

```
customer_name=str(input("enter your name:"))
```

```
product_sale=int(input("enter product id to purchase:"))
```

```
quan1=int(input("enter quantity to purchase:"))
```

```
temp={}
```

```
if(product_sale in product.keys()):
```

```
    if(product[product_sale]['quantity']>=quan1):
```

```
        print("name:",product[product_sale]['name'])
```

```
        print("price:",product[product_sale]['price'])
```

```
        print("quantity:", quan1)
```

```
        print("-"*30)
```

```
        print("Billing Amount:", product[product_sale]['price'] *
```

```
quan1)
```

```

        print("-"*30)
        product[product_sale]['quantity'] = product[product_sale]
['quantity'] - quan1

        temp={ 'customer_name':customer_name,
                'Prodcut_id' : product_sale,
                'product_name' : product[product_sale]['name'],
                'Bill' : product[product_sale]
['price'] * quan1,
                'Quantity' : quan1,
                'price' : product[product_sale]
['price']}

        sales[len(sales)+1] = temp
    else:
        print("Sorry, We are not having that much of quantity.")
        print("Only we have",product[product_sale]
['quantity'], "quantity.")
        print("Would you like to purchase or not (Y/N)")
        cha = str(input("Y/N"))

        if (cha == "Y"):
            # If user wants to purchase the quantitry we're having
            print("name:",product[product_sale]['name'])
            print("price:",product[product_sale]['price'])
            print("quantity:", quan1)
            print("-"*30)
            print("Billing Amount:", product[product_sale]['price'] *
quan1)

            print("-"*30)

            dct[product_sale]['quantity'] = 0
            # Updating Inventory

            sales[str(len(sales)+1)] = {'customer_name':customer_name,
                                        'Prodcut_id' : product_sale,
                                        'product_name' :
product[product_sale]['name'],
                                        'Bill' : product[product_sale]
['price'] *product[product_sale]['quantity'] ,
                                        'Quantity' : quan1,
                                        'price' : product[product_sale]
['price']}

        else:
            # If user press anything Except Y
            print("Thankyou!")
    else:
        print("product doesn't exist")

```

```
-----  
1002 {'name': '5Star', 'catogery': 'chocolate', 'quantity': 100,  
'price': 10, 'man_date': '04/2024', 'exp_date': '12/2024'}  
-----
```

```
enter your namevaishu  
enter product id to purchase:1002  
enter quantity to purchase:5  
name: 5Star  
price: 10  
quantity: 5
```

```
-----  
Billing Amount: 50  
-----
```

```
print(sales)
```

```
{1: {'customer_name': 'vaishnavi', 'Prodcut_id': 1002, 'product_name':  
'5Star', 'Bill': 30, 'Quantity': 3, 'price': 10}, 2: {'customer_name':  
'vaishu', 'Prodcut_id': 1002, 'product_name': '5Star', 'Bill': 50,  
'Quantity': 5, 'price': 10}}
```

```
print(product)
```

```
{1002: {'name': '5Star', 'catogery': 'chocolate', 'quantity': 95,  
'price': 10, 'man_date': '04/2024', 'exp_date': '12/2024'}}
```