```python
products = {
    1001 : {"name":"Pepsi Can",                 "price":153, "quan":50,  "expiry":"20 oct 2023
    1002 : {"name":"Tata Salt",                 "price":20,  "quan":130, "expiry":"12 jan 2022
    1003 : {"name":"Tata Tea Gold",             "price":48,  "quan":145, "expiry":"10 mar 2023
    1004 : {"name":"Turmeric Powder",           "price":52,  "quan":122, "expiry":"23 jun 2023
    1005 : {"name":"Quaker Oats",               "price":285, "quan":30,  "expiry":"30 oct 2022
    1006 : {"name":"Saffola Active",            "price":207, "quan":58,  "expiry":"29 jan 2022
    1007 : {"name":"Kitkat Desert",             "price":55,  "quan":59,  "expiry":"31 aug 2022
    1008 : {"name":"Dark Fantasy Choco Fills","price":90,  "quan":90,  "expiry":"21 feb 2022
    1009 : {"name":"Candyman Fantasy",          "price":80,  "quan":95,  "expiry":"28 dec 2021
    1010 : {"name":"Lotte Choco Pie",           "price":110, "quan":95,  "expiry":"01 jun 2022
    1011 : {"name":"Britania Chocolate cake",   "price":120, "quan":100, "expiry":"15 jul 2022
    1012 : {"name":"Pillsbury cookes cake",     "price":90,  "quan":200, "expiry":"02 dec 2021
    1013 : {"name":"Kraft Oreo Soft Cake",      "price":249, "quan":120, "expiry":"30 dec 2021
    1014 : {"name":"Mom's Magic Cashew",        "price":80,  "quan":180, "expiry":"19 mar 2022
    1015 : {"name":"Cadbury Oreo chacolate",    "price":60,  "quan":185, "expiry":"19 feb 2022
    1016 : {"name":"Betty Croker Pancake",      "price":346, "quan":190, "expiry":"15 jan 2022
    1017 : {"name":"Parle G Original",          "price":67,  "quan":140, "expiry":"13 dec 2011
    1018 : {"name":"Lays Potato Chips",         "price":30,  "quan":450, "expiry":"14 feb 2023
    1019 : {"name":"Bingo! Mad Angle",          "price":25,  "quan":440, "expiry":"20 dec 2023
    1020 : {"name":"Kellogg's pringles",        "price":85,  "quan":400, "expiry":"25 jan 2024
    1021 : {"name":"Dorito's Nacho Chips",      "price":90,  "quan":360, "expiry":"22 jan 2023
    1022 : {"name":"Thums Up Soft Drink",       "price":40,  "quan":60,  "expiry":"20 dec 2024
    1023 : {"name":"Svami Soda Water",          "price":55,  "quan":70,  "expiry":"20 jun 2023
    1024 : {"name":"Coca-Cola",                 "price":65,  "quan":60,  "expiry":"22 jul 2023
    1025 : {"name":"Sprite Lime Flavor",        "price":89,  "quan":40,  "expiry":"20 nov 2023
    1026 : {"name":"Colgate Maxfresh",          "price":215, "quan":55,  "expiry":"20 jun 2024
    1027 : {"name":"Pepsodent Gum Care",        "price":300, "quan":150, "expiry":"15 jul 2022
    1028 : {"name":"Dabur Amla Hair Oil",       "price":247, "quan":100, "expiry":"10 aug 2024
    1029 : {"name":"Nivea Men Face Wash",       "price":149, "quan":98,  "expiry":"31 jul 2022
    1030 : {"name":"Himalaya Herbal Face wash","price":104, "quan":200, "expiry":"22 may 2022
    1031 : {"name":"Himalaya Baby Powder",      "price":243, "quan":150, "expiry":"31 may 2024
    1032 : {"name":"Nivea Talcum Powder",       "price":199, "quan":120, "expiry":"31 may 2024
    1033 : {"name":"Fogg Xtremo Scent",         "price":299, "quan":155, "expiry":"01 jan 2024
    1034 : {"name":"Villain Perfume men",       "price":555, "quan":230, "expiry":"31 may 2024
    1035 : {"name":"Dairy Milk Silk",           "price":475, "quan":50,  "expiry":"31 jan 2022
}


import json


js=json.dumps(products)


fd=open("products.json","w")
fd.write(js)
fd.close()


fd = open("products.json",'r')
```

```
r = fd.read()
fd.close()


products = json.loads(r)


products
```

```
         'expiry': '23 jun 2023',
         'name': 'Turmeric Powder',
         'price': 52,
         'quan': 122},
        '1005': {'brand': 'Quaker',
         'expiry': '30 oct 2022',
         'name': 'Quaker Oats',
         'price': 285,
         'quan': 30},
        '1006': {'brand': 'Saffola',
         'expiry': '29 jan 2022',
         'name': 'Saffola Active',
         'price': 207,
         'quan': 58},
        '1007': {'brand': 'Nestle',
         'expiry': '31 aug 2022',
         'name': 'Kitkat Desert',
         'price': 55,
         'quan': 59},
        '1008': {'brand': 'Dark Fantasy',
         'expiry': '21 feb 2022',
         'name': 'Dark Fantasy Choco Fills',
         'price': 90,
         'quan': 90},
        '1009': {'brand': 'Candyman Fantastik',
         'expiry': '28 dec 2021',
         'name': 'Candyman Fantasy',
         'price': 80,
         'quan': 95},
        '1010': {'brand': 'Lotte',
         'expiry': '01 jun 2022',
         'name': 'Lotte Choco Pie',

         'price': 110,
         'quan': 95},
        '1011': {'brand': 'Britania',
         'expiry': '15 jul 2022',
         'name': 'Britania Chocolate cake',
         'price': 120,
         'quan': 100},
        '1012': {'brand': 'Pillsbury',
         'expiry': '02 dec 2021',
         'name': 'Pillsbury cookes cake',
         'price': 90,
         'quan': 200},
        '1013': {'brand': 'Ore0',
         'expiry': '30 dec 2021',
         'name': 'Kraft Oreo Soft Cake',
         'price': 249,
```

```
       'quan': 120},
      '1014': {'brand': 'Sunfeast',
       'expiry': '19 mar 2022',
       'name': "Mom's Magic Cashew",
       'price': 80,
       'quan': 180},
      '1015': {'brand': 'Cadbury',
       'expiry': '19 feb 2022',
       'name': 'Cadbury Oreo chacolate',
       'price': 60,
       'quan': 185}.
```

```python
prod_id = input("Enter the Product ID: ")
name = input("Enter the Name of the Product: ")
price = int(input("Enter the price per Item: "))
quan = int(input("Enter The Quantity of the Product you want to add: "))
expiry = input("Enter the expiry date of the Product: ")
brand = input("Enter the Brand of the product: ")

products[prod_id] = {"name":name,"price":price,"quan":quan,"expiry":expiry,"brand":brand}

js = json.dumps(products)

fd = open("products.json","w")
fd.write(js)
fd.close()
```

```
    Enter the Product ID: 1037
    Enter the Name of the Product: Munch Chocolate
    Enter the price per Item: 5
    Enter The Quantity of the Product you want to add: 100
    Enter the expiry date of the Product: 31 Dec 2021
    Enter the Brand of the product: Nestle
```

```python
import json

fd = open("products.json",'r')
r = fd.read()
fd.close()

products = json.loads(r)



print("Welcome to shop")


ui_prod = input("Enter the product Id: ")
ui_quan = int(input("Enter the quantity of the Product: "))

for i in products.keys():
    while ui_prod == i:
        if ui_quan <= products[i]['quan']:
```

```python
            print("**************************************")
            print("                 product:",products[ui_prod]['name'])
            print("                    price:",products[ui_prod]['price'])
            print("             Expiry date:",products[ui_prod]['expiry'])
            print(" Manufacturing Brand:",products[ui_prod]['brand'])
            print("**************************************")
            print("----------BILLING DETAILS:---------- ")
            print("Total Amount: ",products[ui_prod]['price']*ui_quan)
            print("Enjoy Your Day")
            print("Thank You. Visit Again")
            print("********************************")
            products[ui_prod]["quan"] = products[ui_prod]["quan"] - ui_quan
        else:
            print("Sorry. Stock of product you enterd is: ",products[ui_prod]['quan'],"\nPlea
        break
  if ui_prod not in products.keys():
    print("Sorry. No product found for ID: ",ui_prod,"\Please enter valid product ID")



js = json.dumps(products)

fd = open("products.json",'w')
fd.write(js)
fd.close()

## The sold items information is stored on sales.json
fd = open("sales.json",'r')
trans = fd.read()
fd.close()

sales = json.loads(trans)
num = len(sales)+1

sales[num] = {'prod':ui_prod, 'quan' : ui_quan, 'amount': products[ui_prod]['price'] * ui_qua
sale = json.dumps(sales)

fd = open("sales.json",'w')
fd.write(sale)
fd.close()
```

```
Welcome to shop
Enter the product Id: 1009
Enter the quantity of the Product: 3
***************************************
            product: Candyman Fantasy
                price: 80
        Expiry date: 28 dec 2021
 Manufacturing Brand: Candyman Fantastik
***************************************

----------BILLING DETAILS:----------
Total Amount:   240
Enjoy Your Day
Thank You. Visit Again
*********************************
```

products

```
{'1001': {'brand': 'Pepsi',
  'expiry': '20 oct 2023',
  'name': 'Pepsi Can',
  'price': 153,
  'quan': 50},
 '1002': {'brand': 'Tata',
  'expiry': '12 jan 2022',
  'name': 'Tata Salt',
  'price': 20,
  'quan': 130},
 '1003': {'brand': 'Tata',
  'expiry': '10 mar 2023',
  'name': 'Tata Tea Gold',
  'price': 48,
  'quan': 145},
 '1004': {'brand': 'Tata',
  'expiry': '23 jun 2023',
  'name': 'Turmeric Powder',
  'price': 52,
  'quan': 122},
 '1005': {'brand': 'Quaker',
  'expiry': '30 oct 2022',
  'name': 'Quaker Oats',
  'price': 285,
  'quan': 30},
 '1006': {'brand': 'Saffola',
  'expiry': '29 jan 2022',
  'name': 'Saffola Active',
  'price': 207,
  'quan': 58},
 '1007': {'brand': 'Nestle',
  'expiry': '31 aug 2022',
  'name': 'Kitkat Desert',
  'price': 55,
  'quan': 59},
 '1008': {'brand': 'Dark Fantasy',
  'expiry': '21 feb 2022',
  'name': 'Dark Fantasy Choco Fills',
  'price': 90,
```

```
          'quan': 90},
     '1009': {'brand': 'Candyman Fantastik',
      'expiry': '28 dec 2021',
      'name': 'Candyman Fantasy',
      'price': 80,
      'quan': 92},
     '1010': {'brand': 'Lotte',
      'expiry': '01 jun 2022',
      'name': 'Lotte Choco Pie',
      'price': 110,
      'quan': 95},
     '1011': {'brand': 'Britania',
      'expiry': '15 jul 2022',
      'name': 'Britania Chocolate cake',
      'price': 120,
      'quan': 100},
     '1012': {'brand': 'Pillsbury',
      'expiry': '02 dec 2021',
      'name': 'Pillsbury cookes cake',
      'price': 90
```

```python
sales = {1 : {'prod':ui_prod, 'quan':ui_quan, 'amount':products[ui_prod]['price']*ui_quan}}
sal = json.dumps(sales)

fd = open("sales.json",'w')
fd.write(sal)
fd.close()
```

✓ 0s   completed at 8:11 PM   ● ✕