```
In [1]: print("-"*40)
        print("-"*40)
        print("Inventory Management System")
        print("-"*40)
        print("-"*40)
        Inventory Management System
        Product Details
In [2]:
        p_dct={123451:{'p_name':'smart phone','p_category':'electronics','p_quantity
               123452:{'p_name':'potato chips','p_category':'edible','p_quantity':10
               123453:{'p_name':'notebook','p_category':'stationary','p_quantity':20
               123454:{'p_name':'Tee-Shirt','p_category':'clothes','p_quantity':15,'
               123455:{'p_name':'sandels','p_category':'footwear','p_quantity':11,'p
In [3]: p_dct
Out[3]: {123451: {'p_name': 'smart phone',
           'p_category': 'electronics',
          'p quantity': 5,
          'p_price': 10000,
           'p_expiry': 'N/A'},
         123452: {'p_name': 'potato chips',
```

'p_category': 'edible',

123453: {'p_name': 'notebook',
 'p_category': 'stationary',

123454: {'p_name': 'Tee-Shirt',
 'p_category': 'clothes',

123455: {'p_name': 'sandels',
 'p_category': 'footwear',

'p_expiry': '2 months from manufacture'},

'p_quantity': 10,
'p_price': 10,

'p_quantity': 20,
'p_price': 100,
'p_expiry': 'N/A'},

'p_quantity': 15, 'p_price': 1000, 'p_expiry': 'N/A'},

'p_quantity': 11,
'p_price': 500,
'p_expiry': 'N/A'}}

```
In [ ]: p_id=int(input("Enter the product ID: "))
    print("-"*20)
    print(p_dct[p_id])
```

Add New Product

```
In [ ]:
        temp={}
                            #creating temporary dictionary
        p_id=int(input("Enter the product ID: "))
        p_name=str(input("Enter the product name: "))
        p_category=str(input("Enter the product category: "))
        p_quantity=int(input("Enter the product quantity: "))
        p_price=int(input("Enter the product price: "))
        p_expiry=str(input("Enter the product expiry: "))
        temp['p_name']='p_name'
        temp['p_category']='p_category'
        temp['p_quantity']='p_quantity'
        temp['p_price']='p_price'
        temp['p_expiry']='p_expiry'
        p_dct[p_id]=temp
In [ ]: |p_dct
```

Add New Product (Another Method)

```
In [4]:
        temp={}
                            #creating temporary dictionary
        p_id=int(input("Enter the product ID: "))
        temp['p name']=str(input("Enter the product name: "))
        temp['p_category']=str(input("Enter the product category: "))
        temp['p_quantity']=int(input("Enter the product quantity: "))
        temp['p_price']=int(input("Enter the product price: "))
        temp['p_expiry']=str(input("Enter the product expiry: "))
        p_dct[p_id]=temp
        Enter the product ID: 123456
        Enter the product name: steel container
        Enter the product category: utensils
        Enter the product quantity: 4
        Enter the product price: 150
        Enter the product expiry: N/A
```

Display Inventory

```
In [6]:
        for k in p_dct.items():
            #When looping through dictionaries, the key and corresponding value can
            print(k)
            print('-'*125)
        (123451, {'p_name': 'smart phone', 'p_category': 'electronics', 'p_quantit
        y': 5, 'p_price': 10000, 'p_expiry': 'N/A'})
        (123452, {'p_name': 'potato chips', 'p_category': 'edible', 'p_quantity': 1
        0, 'p_price': 10, 'p_expiry': '2 months from manufacture'})
        (123453, {'p_name': 'notebook', 'p_category': 'stationary', 'p_quantity': 2
        0, 'p_price': 100, 'p_expiry': 'N/A'})
        (123454, {'p_name': 'Tee-Shirt', 'p_category': 'clothes', 'p_quantity': 15,
         p_price': 1000, 'p_expiry': 'N/A'})
        (123455, {'p_name': 'sandels', 'p_category': 'footwear', 'p_quantity': 11,
         'p_price': 500, 'p_expiry': 'N/A'})
        (123456, {'p_name': 'steel container', 'p_category': 'utensils', 'p_quantit
        y': 4, 'p_price': 150, 'p_expiry': 'N/A'})
```

```
In [7]:
      for i in p_dct:
          print(i)
          print(p_dct[i])
          print('-'*125)
      123451
      {'p_name': 'smart phone', 'p_category': 'electronics', 'p_quantity': 5, 'p_
      price': 10000, 'p_expiry': 'N/A'}
       -----
      123452
       {'p name': 'potato chips', 'p_category': 'edible', 'p_quantity': 10, 'p_pri
      ce': 10, 'p_expiry': '2 months from manufacture'}
       -----
      123453
       {'p_name': 'notebook', 'p_category': 'stationary', 'p_quantity': 20, 'p_pri
      ce': 100, 'p_expiry': 'N/A'}
       ______
      123454
       {'p_name': 'Tee-Shirt', 'p_category': 'clothes', 'p_quantity': 15, 'p_pric
      e': 1000, 'p_expiry': 'N/A'}
      123455
       {'p_name': 'sandels', 'p_category': 'footwear', 'p_quantity': 11, 'p_pric
      e': 500, 'p_expiry': 'N/A'}
      {'p_name': 'steel container', 'p_category': 'utensils', 'p_quantity': 4, 'p
       _price': 150, 'p_expiry': 'N/A'}
```

Search For A Product

Search Using Product ID

Search using Product Name

Search Using Product Category

Update Product Details

```
p id=int(input("Enter the product ID of the product which needs an update of
In [ ]:
        print('-'*50)
        quantity=str(input("Do you want to update quantity of product in the stock?
        print('-'*50)
        if quantity=='yes':
            p_quantity=int(input("Enter the updated quantity of product in the stock
            p_dct[p_id]['p_quantity']=p_quantity
            print(p_id,':',p_dct[p_id])
            print('-'*50)
        #price=str(input("Do you want to update the price per unit of the product?"
            print('-'*50)
           #if quantity=='yes':
           # p_quantity=int(input("Enter the updated quantity of product in the sto
            #p_dct[p_id]['p_quantity']==p_quantity
            #print(p_id,':',p_dct[p_id])
            #print('-'*50)
        price=str(input("Do you want to update the price per unit of the product? ")
        if price=='yes':
            p_price=int(input("Enter the updated quantity of product in the stock: "
            p dct[p id]['p price']=p price
            print(p_id,':',p_dct[p_id])
        print('-'*50)
        Enter the product ID of the product which needs an update of product detail
        Do you want to update quantity of product in the stock? yes
        -----
        Enter the updated quantity of product in the stock: 12
        123455 : {'p_name': 'sandels', 'p_category': 'footwear', 'p_quantity': 12,
        'p_price': 500, 'p_expiry': 'N/A'}
```

In []: