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## assignment2

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```
[ ]: product_details=[]
     supplier_details=dict()
     customer_details=[]
     gender={}
     fp1 = open("sales.csv", "r")
     data=fp1_readline()
     while(True):
       data=fp1_readline()
       if not data:
         break
       print(data)
       data= data.replace("\n","")
       temp= data.split(",")
       product_details.append(temp[1])
       customer_details.append(temp[3])
       supplier_details.update({temp[0]:temp[2]})
       gender.update({temp[3]:temp[4]})
```

P00001,Lenovo laptop,Raka Ele.,Kaustoobh Mahajan,male
P00002,Samsung Laptop,Vijay Sales,Siddhi kivale,female
P00003,Realmi 10pro,Gada Ele.,Sanket Kandalkar,male
P00004,Oppo f21,Surya Ele.,Yash mali,male
P00005,Lenovo laptop,Raka Ele.,Yash Bagul,male
P00006,Samsung M31,Gada Ele.,Siddhi kivale,female
P00007,LG TV 32\*,Vijay Sales,Sanket Kandalkar,male
P00008,Oppo f21,Surya Ele.,Kaustoobh Mahajan,male
P00009,Lenovo laptop,Raka Ele.,Yash mali,male
P00010,Samsung M31,Gada Ele.,Siddhi kivale,female

P00011,LG TV 32\*,Surya Ele.,Sanket Kandalkar,male

P00012,Lenovo laptop,Raka Ele.,Kaustoobh Mahajan,male

P00013, Samsung M31, Surya Ele., Yash mali, male

P00014,Realmi 10pro,Raka Ele.,Siddhi kivale,female

P00015, Lenovo laptop, Gada Ele., Tanuja Mali, female

P00016,Oppo f21,Vijay Sales,Kaustoobh Mahajan,male

P00017,LG TV 32\*,Deshmukh Sales,Sanket Kandalkar,male

P00018, Lenovo laptop, Raka Ele., Siddhi kivale, female

P00019, Samsung M21, Deshmukh Sales, Kaustoobh Mahajan, male

P00020,LG TV 32\*,Gada Ele.,Yash mali,male

## [ ]: fp1.close()

```
[]: customer_details= tuple(customer_details)
    print(type(customer_details))
    print("\nproduct_details\n",product_details,end="")
    print("\ncustomer_details\n",customer_details,end="")
    print("\nsupplier_details\n",supplier_details,end="")
    print("\ngender\n",gender,end="")
```

<class 'tuple'>

## product\_details

['Lenovo laptop', 'Samsung Laptop', 'Realmi 10pro', 'Oppo f21', 'Lenovo laptop', 'Samsung M31', 'LG TV 32\*', 'Oppo f21', 'Lenovo laptop', 'Samsung M31', 'LG TV 32\*', 'Lenovo laptop', 'Samsung M31', 'Realmi 10pro', 'Lenovo laptop', 'Oppo f21', 'LG TV 32\*', 'Lenovo laptop', 'Samsung M21', 'LG TV 32\*'] customer\_details

('Kaustoobh Mahajan', 'Siddhi kivale', 'Sanket Kandalkar', 'Yash mali', 'Yash Bagul', 'Siddhi kivale', 'Sanket Kandalkar', 'Kaustoobh Mahajan', 'Yash mali', 'Siddhi kivale', 'Sanket Kandalkar', 'Kaustoobh Mahajan', 'Yash mali', 'Siddhi kivale', 'Tanuja Mali', 'Kaustoobh Mahajan', 'Sanket Kandalkar', 'Siddhi kivale', 'Kaustoobh Mahajan', 'Yash mali') supplier\_details

{'P00001': 'Raka Ele.', 'P00002': 'Vijay Sales', 'P00003': 'Gada Ele.', 'P00004': 'Surya Ele.', 'P00005': 'Raka Ele.', 'P00006': 'Gada Ele.', 'P00007': 'Vijay Sales', 'P00008': 'Surya Ele.', 'P00009': 'Raka Ele.', 'P00010': 'Gada Ele.', 'P00011': 'Surya Ele.', 'P00012': 'Raka Ele.', 'P00013': 'Surya Ele.', 'P00011': 'Surya Ele.', 'P0001': 'Surya Ele.', 'P0001': 'Surya Ele.', 'P0001': 'Su

```
'P00014': 'Raka Ele.', 'P00015': 'Gada Ele.', 'P00016': 'Vijay Sales', 'P00017':
    'Deshmukh Sales', 'P00018': 'Raka Ele.', 'P00019': 'Deshmukh Sales', 'P00020':
    'Gada Ele.'}
    gender
     {'Kaustoobh Mahajan': 'male', 'Siddhi kivale': 'female', 'Sanket Kandalkar':
    'male', 'Yash mali': 'male', 'Yash Bagul': 'male', 'Tanuja Mali': 'female'}
[ ]: frequency= {}
     for item in product_details:
       if item in frequency:
         frequency[item] += 1
       else:
         frequency[item] = 1
     print(frequency)
     marklist= sorted(frequency.items(), key=lambda x: x[1],reverse=True)
     sortdict = dict(marklist)
     print(sortdict)
     print("The most popular product for sales", list(sortdict.
     keys())[0], 'sold', list(sortdict_values())[0], 'times')
    {'Lenovo laptop': 6, 'Samsung Laptop': 1, 'Realmi 10pro': 2, 'Oppo f21': 3,
    'Samsung M31': 3, 'LG TV 32*': 4, 'Samsung M21': 1}
    {'Lenovo laptop': 6, 'LG TV 32*': 4, 'Oppo f21': 3, 'Samsung M31': 3, 'Realmi
    10pro': 2, 'Samsung Laptop': 1, 'Samsung M21': 1}
    The most popular product for sales Lenovo laptop sold 6 times
[ ]: from collections import Counter
     counter = dict(Counter(list(supplier_details.values())))
     sorted_counter = sorted(counter.items(), key= lambda x:x[1],reverse=True)
```

The most popular product for sales Raka Ele. sold 6 Items

```
Frequency is as below:
{'Kaustoobh Mahajan': 5, 'Siddhi kivale': 5, 'Sanket Kandalkar': 4, 'Yash mali': 4, 'Yash Bagul': 1, 'Tanuja Mali': 1}

Sorted dict is as below:
{'Kaustoobh Mahajan': 5, 'Siddhi kivale': 5, 'Sanket Kandalkar': 4, 'Yash mali': 4, 'Yash Bagul': 1, 'Tanuja Mali': 1}
```

The customer who buys most of the products Kaustoobh Mahajan buy 5 Items

The customer who buys most of the products Kaustoobh Mahajan buy 5 Items

['Kaustoobh Mahajan', 'Siddhi kivale', 'Sanket Kandalkar', 'Yash mali', 'Yash Bagul', 'Tanuja Mali']
Total no of Male= 4
Total no of Female= 2