```
Product details=[]
Supplier details=dict()
Customer details=[]
aender={}
fp1=open("D:\Sales.csv","r")
data=fp1.readline()
while(True):
     data=fp1.readline()
     if not data:
          break;
     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]})
fp1.close()
Customer details=tuple(Customer details)
print(type(Customer details))
<class 'tuple'>
print("\nProduct details\n",Product details,end="")
print("\n\nCustomer details\n",Customer details,end="")
print("\n\nSupplier details\n", Supplier details, end="")
print("\n\nGender details\n",gender,end="")
Product details
['Lenovo Laptop', 'Samsung M31', '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 M31', '"LG TV 32"""']
Customer details
('Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustu
                                                                      'Kaustubh
Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustubh Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Tanuja Mali', 'Kaustubh
Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Tanuja Mali', 'Kaustubn
Mahajan', 'Sanket Kandalkar', 'Siddhi Kiwale', 'Kaustubh 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.', 'P00014': 'Raka Ele.', 'P00015':
'Raka Ele.', 'P00013': 'Surya Ele.', 'P00014: Kaka Ele., 1000
'Gada Ele.', 'P00016': 'Vijay Sales', 'P00017': 'Deshmukh sales', 'P00020': 'Gad
'P00018': 'Raka Ele.', 'P00019': 'Deshmukh sales', 'P00020': 'Gada
Ele.'}
Gender details
 {'Kaustubh Mahajan': 'Male', 'Siddhi Kiwale': '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 M31': 5, 'Realmi 10pro': 2, 'Oppo F21':
3, '"LG TV 32"""': 4}
{'Lenovo Laptop': 6, 'Samsung M31': 5, '"LG TV 32"""': 4, 'Oppo F21':
3, 'Realmi 10pro': 2}
The most popular product for sales Lenovo Laptop sold 6 times
frequency = \{\}
for item in Customer 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("\nSorted dict is as below:\n",sortdict)
print("\n\nThe customer who buys most of the
products", list(sortdict.keys())[0],
       " buy ",list(sortdict.values())[0],"Items")
Fregenct is as below:
 {'Kaustubh Mahajan': 5, 'Siddhi Kiwale': 5, 'Sanket Kandalkar': 4,
'Yash Mali': 4, 'Yash Bagul': 1, 'Tanuja Mali': 1}
```

```
Sorted dict is as below:
{'Kaustubh Mahajan': 5, 'Siddhi Kiwale': 5, 'Sanket Kandalkar': 4,
'Yash Mali': 4, 'Yash Bagul': 1, 'Tanuja Mali': 1}
The customer who buys most of the products Kaustubh Mahajan buy 5
Items
from collections import Counter
counter = dict(Counter(Customer details))
names=list(counter.keys())
print(names)
male=0
female=0
for name in names:
    if gender[name] == "Male":
        male=male+1
    if gender[name] == "Female":
        female += 1
print("Total no of Male=",male)
print("Total no of Female=",female)
['Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali',
'Yash Bagul', 'Tanuja Mali']
Total no of Male= 4
Total no of Female= 2
```