```
Product_details=[]
Supplier_details=dict()
Customer_details=[]
Gender={}
fpl=open("/content/sample_data/sales620.csv","r")
data=fpl.readline()
while(True):
     data=fpl.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]})
fpl.close()
Customer_details=tuple(Customer_details)
print(type(Customer_details))
```

```
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="")
OUTPUT:
<class 'tuple'>
Product_details
 ['Lenovo Laptop', 'Samsung A9', 'Realmi 10pro', 'Oppo F21', 'LG TV']
Customer_details
 ('Riya Jha', 'Chirag Gupta', 'Priya Acharya', 'David Bonal', 'Shlok Gupta')
Supplier_details
 {'S0001': 'Vijay sales', 'S0002': 'Surya Ele.', 'S0003': 'Vijay sales', 'S0004': 'Surya Ele.', 'S0005': 'Vijay
sales'}
Gender_details
 {'Riya Jha': 'Female', 'Chirag Gupta': 'Male', 'Priya Acharya': 'Female', 'David Bonal': 'Male', 'Shlok
Gupta': 'Male'}
# Most popular product for sales.
frequency = {}#{Lenovo Laptop:3}
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")
OUTPUT:
{'Lenovo Laptop': 1, 'Samsung A9': 1, 'Realmi 10pro': 1, 'Oppo F21': 1, 'LG TV': 1}
{'Lenovo Laptop': 1, 'Samsung A9': 1, 'Realmi 10pro': 1, 'Oppo F21': 1, 'LG TV': 1}
The most popular product for sales Lenovo Laptop sold 1 times
# Best supplier for sales.
frequency = {}
for item in Supplier_details.values():
   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 supplier for sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"items")
OUTPUT:
{'Vijay sales': 3, 'Surya Ele.': 2}
{'Vijay sales': 3, 'Surya Ele.': 2}
```

```
The most popular supplier for sales Vijay sales sold 3 items
# Customer who buys most of the products.
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")
OUTPUT:
Frequenct is as below:
{'Riya Jha': 1, 'Chirag Gupta': 1, 'Priya Acharya': 1, 'David Bonal': 1, 'Shlok Gupta': 1}
Sorted dict is as below:
 {'Riya Jha': 1, 'Chirag Gupta': 1, 'Priya Acharya': 1, 'David Bonal': 1, 'Shlok Gupta': 1}
The customer who buys most of the products Riya Jha buy 1 items
# Identify Unique Customer
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)

OUTPUT:

['Riya Jha', 'Chirag Gupta', 'Priya Acharya', 'David Bonal', 'Shlok Gupta']

Total no of Male= 3
```

Total no of Female= 2