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## **EDS Assignment 2:**

## Code:

```
Product details=[]
Supplier details=dict()
Customer details=[] #tuple()
gender={}
fp1=open("/content/sample data/Sales.csv","r")
data=fp1.readline()
while (True):
   data=fp1.readline()
   if not 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]})
fp1.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="")
```

```
frequency = {}#{Lenovo Laptop:3}
for item in Product details:
  if item in frequency:
   frequency[item] += 1
    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 for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"time
s")
from collections import Counter
counter = dict(Counter(list(Supplier details.values())))
sorted counter = sorted(counter.items(), key=lambda x:x[1], reverse=True)
sorted counter=dict(sorted counter)
print("The most popular Supplier for
sales",list(sorted counter.keys())[0],"sold",list(sorted counter.values
#4 find the customer who buys most of the products
frequency = {}
for item in Customer details:
  if item in frequency:
    frequency[item] += 1
    frequency[item] = 1
print("Frequency is as below:\n",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], "It
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=female+1
print("Total no of Male=", male)
print("Total no of Female=",female)
```

## **Output:**

```
class 'tuple'>
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"""1
Customer details
('Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul', 'Siddhi Kiwale',
'Sanket Kandalkar', 'Kaustubh Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustubh
Mahajan', 'Yash Mali', 'Siddhi Kiwale', 'Tanuja Mali', 'Kaustubh 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': 'Gada Ele.', 'P00016': 'Vijay Sales', 'P00017': 'Deshmukh sales', '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'}{'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 for sales Lenovo Laptop sold 6 times
The most popular Supplier for sales Raka Ele. sold 6 Items
Frequency 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 ['Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul', 'Tanuja Mali'] Total no of Male= 4 Total no of Female= 2