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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
Product details:
if item in frequency:
frequency[item] += 1 else:
                             frequency[item] = 1 #printing the
frequency 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
#or 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
sales",list(sorted counter.keys())[0],"sold",list(sorted counter.values
())[0],"Items")
frequency = {}
item in Customer details:
if item in frequency:
frequency[item] += 1 else:
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
ems")

#5 find the no. of customer who are female

#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=female+1 print("Total no
of Male=",male) print("Total no of
Female=",female)
```

# 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', '"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', '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:	

Output:

{'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