EDS Assignment:02

Name: Rajesh Gaikwad
Div:F(1)
Roll no:617
PRN No:202201070060

Code 1 -

```
Product_details=[]
Supplier_details=dict()
Customer_details=[]
gender={}

fp1=open("/content/omkar.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]})

fp1.close()

Customer_details=tuple(Customer_details)
print(type(Customer_details))


print("\nProduct_details\n",Product_details,end="")
print("\n\nCustomer_deatils\n",Customer_details,end="")
print("\n\nSupplier_details\n",Supplier_details,end="")
print("\n\nGender_details\n",gender,end="")
```

Output-

```
<class 'tuple'>

Product_details
 ['Asus Laptop', 'Macbook', "Sony TV 32'", 'HP Laptop', 'Samsung A30',
'Lenovo Laptop', 'Vivo V27', 'Oppo F21', 'HP Laptop', 'Asus Laptop',
'Macbook', "LG TV 32'", 'Samsung M31', 'Oneplus 10R ', 'Oneplus 11R',
'Dell Laptop', "Sony TV 50'", "LG TV 50'", 'Asus Laptop', 'Dell Laptop']

Customer_deatils
 ('Aryaman Deshmukh ', 'Sahil Karne', 'Sahil Karne', 'Yash Borkar', 'Omkar
Dhere', 'Omkar Abhale', 'Yash Borkar', 'Sakshi ', 'Aryaman Deshmukh ',
'Pratik Jaybhaye', 'Anveshika', 'Prakruti', 'Vidhisha', 'Aryaman Deshmukh
', 'Aryaman Deshmukh ', 'Pratik Jaybhaye', 'Sakshi ', 'Prakruti',
'Vidhisha', 'Anveshika')

Supplier_details
 {'P001': 'Vijay Sales', 'P002': 'Apple Store', 'P003': 'Fast Ele',
'P004': 'Vijay Sales', 'P005': 'Fast Ele', 'P006': 'Vijay Sales', 'P007':
'Vivo Store', 'P008': 'Fast Ele', 'P009': 'Vijay Sales', 'P010': 'Vijay
Sales', 'P011': 'Apple Store', 'P012': 'Fast Ele', 'P013': 'Fast Ele',
'P014': 'Oneplus Store', 'P015': 'Oneplus Store', 'P016': 'Vijay Sales',
'P017': 'Fast Ele', 'P018': 'Fast Ele', 'P019': 'Vijay Sales', 'P020':
'Vijay Sales'}

Gender_details
 {'Aryaman Deshmukh ': 'Male', 'Sahil Karne': 'Male', 'Yash Borkar':
'Male', 'Omkar Dhere': 'Male', 'Omkar Abhale': 'Male', 'Sakshi ':
'Female', 'Pratik Jaybhaye': 'Male', 'Anveshika': 'Female', 'Prakruti':
'Female', 'Vidhisha': 'Female'}
```

Code 2 -

```python
frequency={} #{Lenovo Laptop:3}
# iterating over the list
for item in Product_details:
  #checking the element in dictionary
  if item in frequency:
    #incrementing the counter
    frequency[item] +=1
  else:
    #initializing the count
    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 product for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"times")
```

Output-

```
{'Asus Laptop': 3, 'Macbook': 2, "Sony TV 32'": 1, 'HP Laptop': 2,
'Samsung A30': 1, 'Lenovo Laptop': 1, 'Vivo V27': 1, 'Oppo F21': 1, "LG TV
32'": 1, 'Samsung M31': 1, 'Oneplus 10R ': 1, 'Oneplus 11R': 1, 'Dell
Laptop': 2, "Sony TV 50'": 1, "LG TV 50'": 1}
{'Asus Laptop': 3, 'Macbook': 2, 'HP Laptop': 2, 'Dell Laptop': 2, "Sony
TV 32'": 1, 'Samsung A30': 1, 'Lenovo Laptop': 1, 'Vivo V27': 1, 'Oppo
F21': 1, "LG TV 32'": 1, 'Samsung M31': 1, 'Oneplus 10R ': 1, 'Oneplus
11R': 1, "Sony TV 50'": 1, "LG TV 50'": 1}
The most popular product for sales Asus Laptop sold 3 times
```

Code 3 –

```
frequency={}
# iterating over the list
for item in Supplier_details.values():
  #checking the element in dictionary
  if item in frequency:
    #incrementing the counter
    frequency[item] +=1
  else:
    #initializing the count
    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 product for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"Items")
```

Output-

```
{'Vijay Sales': 8, 'Apple Store': 2, 'Fast Ele': 7, 'Vivo Store': 1,
'Oneplus Store': 2}
```

```
{'Vijay Sales': 8, 'Fast Ele': 7, 'Apple Store': 2, 'Oneplus Store': 2,
'Vivo Store': 1}
The most popular product for sales Vijay Sales sold 8 Items
```

Code 04-

```
frequency={}
# iterating over the list
for item in Supplier_details.values():
  #checking the element in dictionary
  if item in frequency:
    #incrementing the counter
    frequency[item] +=1
  else:
    #initializing the count
    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 product for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"Items")
```

Output-

```
{'Vijay Sales': 8, 'Apple Store': 2, 'Fast Ele': 7, 'Vivo Store': 1,
'Oneplus Store': 2}
{'Vijay Sales': 8, 'Fast Ele': 7, 'Apple Store': 2, 'Oneplus Store': 2,
'Vivo Store': 1}
The most popular product for sales Vijay Sales sold 8 Items
```

Code 05-

```
# 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-

```
['Aryaman Deshmukh ', 'Sahil Karne', 'Yash Borkar', 'Omkar Dhere', 'Omkar
Abhale', 'Sakshi ', 'Pratik Jaybhaye', 'Anveshika', 'Prakruti',
'Vidhisha']
Total no of Male= 6
Total no of Female= 4
```