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ASSIGNMENT NO 2

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

fp1=open("/content/sales1 603.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 1:

```
<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*']
```

Customer deatils

```
('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'}
```

Code 2 :

```
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 2: {'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

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(sort
dict.values())[0],"Items")

```

Output 3:

```

{'Raka Ele.': 6, 'Vijay Sales': 3, 'Gada Ele.':
5, 'Surya Ele.': 4, 'Deshmukh sales': 2}
{'Raka Ele.': 6, 'Gada Ele.': 5, 'Surya Ele.':
4, 'Vijay Sales': 3, 'Deshmukh sales': 2}
The most popular product for sales Raka Ele.
sold 6 Items

```

Code 4:

```

frequency={}

```

```

# iterating over the list
for item in Customer_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 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],"Items
")

```

Output 4:

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

Code 5:

```

# 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 5:

['Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket
Kandalkar', 'Yash Mali', 'Yash Bagul', 'Tanuja Mali']

Total no of Male= 4

Total no of Female= 2