

# ASSIGNMENT 2

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**DIVISION: F**

**BATCH: F4**

**ROLL NO: 666**

**PRN: 202201050029**

**SAMPLE FILE USED: SALES.csv**

| 1 to 10 of 20 entries <span>Filter</span>  |                 |                  |                  |        |
|---|-----------------|------------------|------------------|--------|
| Product ID  | Product details | Supplier Details | Customer Details | Gender |
| P00001  | Lenovo Laptop   | Raka Ele.        | Kaustubh Mahajan | Male   |
| P00002  | Samsung M31     | Vijay Sales      | Siddhi Kiwale    | Female |
| P00003  | Realmi 10pro    | Gada Ele.        | Sanket Kandalkar | Male   |
| P00004  | Oppo F21        | Surya Ele.       | Yash Mali        | Male   |
| P00005  | Lenovo Laptop   | Raka Ele.        | Yash Bagul       | Male   |
| P00006  | Samsung M31     | Gada Ele.        | Siddhi Kiwale    | Female |
| P00007  | LG TV 32"       | Vijay Sales      | Sanket Kandalkar | Male   |
| P00008  | Oppo F21        | Surya Ele.       | Kaustubh Mahajan | Male   |
| P00009  | Lenovo Laptop   | Raka Ele.        | Yash Mali        | Male   |
| P00010  | Samsung M31     | Gada Ele.        | Siddhi Kiwale    | Female |

## 1. Find the most popular product for sale

```
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:
        # initialising 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],"time
s")
```

## OUTPUT:

```
{'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
```

## 2. Find the best supplier for sales.

```
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:
        #intializing 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 Supplier for
sales",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"Items")
```

### OUTPUT:

```
{'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 Supplier for sales Raka Ele. sold 6 Items
```

### 3. Find the customer who buys most of the products.

```
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:
        #intializing 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 customer",list(sortdict.keys())[0],"purchased",list(sortdict.values())[0],"Items")
```

#### OUTPUT:

```
{'Kaustubh Mahajan': 5, 'Siddhi Kiwale': 5, 'Sanket
Kandalkar': 4, 'Yash Mali': 4, 'Yash Bagul': 1, 'Tanuja Mali':
1}
The most popular customer Kaustubh Mahajan purchased 5 Items
```

#### 4. Find the number of customers 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+=1
print("total no of Male=",male)
print("total no of Female=",female)
```

#### OUTPUT:

```
['Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul',
'Tanuja Mali']
total no of Male= 4
total no of Female= 2
```

