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## **Practical 2**

Statement - Prepare/Take datasets for any real-life application. For Ex. Sales of the company. Read the data from <a href="Sales.csv">Sales.csv</a>/.xls/.txt. Store Product details in the List data structure. Store Supplier Details in Dictionary Data Structure. Store Customer Details in Tuple Data Structure. Now perform the following operations:

- 1. Find the most popular product for sale.
- 2. Find the best supplier for sales.
- 3. Find the customer who buys most of the products.
- 4. Find the number of customers who are 'Female'

Code -

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```
f=open("sales.csv", "r")
data=f.read()
lines=data.splitlines()
p details=[]
c details=()
s details={}
g details={}
ctemp=[]
pfc={}
cfc={}
male=0
female=0
freq={}
for l in lines:
   words=1.split(",")
   p details.append(words[1])
    ctemp.append(words[3])
    s details[words[0]]=words[2]
    g details[words[3]]=words[4]
#1) Find the most popular product for sale
for p in p_details:
    if p not in pfc:
        pfc[p]=1
  else:
       pfc[p]=pfc[p]+1
max=0
pn=""
for k, v in pfc.items():
    if (max<v):
        max=v
        pn=k
print("The most popular product for sale -",pn)
```

```
#2) Find the customer who buys most of the products
for c in ctemp:
   if c not in cfc:
       cfc[c]=1
  else:
       cfc[c]=cfc[c]+1
max=0
cd=""
for a,b in cfc.items():
    if (max<b):
       max=b
        cd=a
print("The customer who buys most of the products -",cd)
#3) Find the number of customers who are 'Female'
for k,v in g details.items():
   if (v=="Female"):
        female=female+1
  else:
       male=male+1
print("The number of customers who are 'Female'-", female)
#4) Find the best supplier for sales.
for s in s details.values():
   if s in freq:
       freq[s]=freq[s]+1
  else:
       freq[s]=1
max=0
rf=""
for k, v in freq.items():
    if (max<v):
       max=v
        rf=k
print("The best supplier for sales -",rf)
```

## Output -

```
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Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

==== RESTART: C:\Users\ASUS\OneDrive\Desktop\eds practical 2\practical 2.py ====

The most popular product for sale - Lenovo Laptop

The customer who buys most of the products - Kaustubh Mahajan
The number of customers who are 'Female' - 2

The best supplier for sales - Raka Ele.
```