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Practical 2

Code -

Statement - Prepare/Take datasets for any real-life application. ForEx. Sales of the company. Read the data from sales.csv/.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'

```
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 I in lines:
  words=l.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 -

```
File Edit Shell Debug Options Window Help

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.
```

Output -

```
File Edit Shell Debug Options Window Help

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The best supplier for sales - Raka Ele.
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