# Practical No: 02

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## Question:

Prepare/Take datasets for any real-life application. For Ex. 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'

## Answer:

```
fo=open("sales.csv",'r')

data=fo.read()

lines=data.splitlines()

p_details=[] c_details=()

s_details={} g_details={}

templ=[] for line in lines:

l2=line.split(",")

p_details.append(l2[1])

templ.append(l2[3])

s_details[l2[0]]=l2[2]
```

```python
g_details[l2[3]]=l2[4]
c_details=tuple(templ)
max1=0
pn='' pcount={} for i
in p_details:    if(i
not in pcount):
pcount[i]=1    else:
    pcount[i]+=1 for k,v in pcount.items():       if (max1<v):
max1=v          pn=k print(pcount,'\n','the most popular product is
:',pn,' with count ',max1) scount={} for d,e in s_details.items():
   if (e not in scount):
    scount[e]=1
else:
    scount[e]+=1
max2=0 sn='' for k,v in
scount.items():    if
(max2<v):       max2=v
sn=k
print(scount,'\n','best supplier for the sales is
:',sn) ccount={} for c in c_details:    if (c not in
ccount):       ccount[c]=1    else:
    ccount[c]=ccount[c]+1
print(ccount) max3=0
cn=''     for    k,v    in
ccount.items():          if
```

```python
    (max3<v):        max3=v

cn=k

print('the customer who buys most of the product

is:',cn) fcount=0 for k,v in g_details.items():

    if (v=='Female'):

fcount+=1

print(g_details,'\n','No of female custemers are:',fcount)
```

## Output:

{'Lenovo Laptop': 6, 'Samsung M31': 5, 'Realmi 10pro': 2, 'Oppo F21': 3, '"LG TV 32"""': 4, '':

1}   the most popular product is : Lenovo Laptop  with count  6

{'Raka Ele.': 6, 'Vijay Sales': 3, 'Gada Ele.': 5, 'Surya Ele.': 4, 'Deshmukh sales': 2, '': 1}

best supplier for the sales is : Raka Ele.

{'Kaustubh Mahajan': 5, 'Siddhi Kiwale': 5, 'Sanket Kandalkar': 4, 'Yash Mali': 4, 'Yash Bagul':
1,
'Tanuja Mali': 1, '': 1}

the customer who buys most of the product is: Kaustubh Mahajan

{'Kaustubh Mahajan': 'Male', 'Siddhi Kiwale': 'Female', 'Sanket Kandalkar': 'Male', 'Yash
Mali': 'Male', 'Yash Bagul': 'Male', 'Tanuja Mali': 'Female', '': ''}

 No of female custemers are : 2