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## PRACTICAL NO. 2

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

```
f=open("Sales.csv","r")
```

```
data=f.read()
```

```
lines=data.splitlines()
```

**CODE:-**

```
p_details=[]
```

```
c_details=()
```

```
s_details={}
```

```
g_details={}
```

```
ctemp=[]
```

```
fcount={}
```

```
sup_fc={}
```

```
cus_fc={}
```

```
for l 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]
```

```
c_details=tuple(ctemp)
```

**MOST POPULAR PRODUCT:-**

```
for p in p_details:
    if p not in fcount:
        fcount[p]=1
    else:
        fcount[p]=fcount[p]+1
max=0
pn=""

for k,v in fcount.items():
    if(max<v):
        max=v
        pn=k
print("Most Popular Product is:",pn)
```

**BEST SUPPLIER:-**

```
for k,v in s_details.items():
    if v not in sup_fc:
        sup_fc[v]=1
    else:
        sup_fc[v]=sup_fc[v]+1

max=0
pn=""

for k,v in sup_fc.items():
    if(max<v):
        max=v
```

```
pn=k
print(("Best Supplier is:",pn)
```

### **CUSTOMER WHO BUYS MOST OF THE PRODUCTS:-**

```
for v in ctemp:
    if v not in cus_fc:
        cus_fc[v]=1
    else:
        cus_fc[v]=cus_fc[v]+1

max=0
pn=""

for k,v in cus_fc.items():
    if(max<v):
        max=v
        pn=k
print("Customer who buys most of the products is: ",pn)
```

### **NUMBER OF CUSTOMERS WHO ARE FEMALE:-**

```
fcount=0

for customer in g_details.items():
    customer=='Female'
    fcount=fcount+1

print("Number of customers who are female:",fcount)
```

**OUTPUT:-**

Most Popular Product is: Lenovo Laptop

Best Supplier is: Raka Ele.

Customer who buys most of the products is: Kaustubh Mahajan

Number of customers who are female: 6 >>>