

NAME: SHIVSHANAR J GHYAR

ROLL NO: 836 H2

PRN NO: 202201040031

Practical No II

Q. 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:

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

#CODE

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

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

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

```
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

>>>