Practical No: 02

Rushikesh Sawant

Roll no: 849 Div: H3

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])
```

```python
        templ.append(l2[3])
        s_details[l2[0]]=l2[2]
        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():
```

```python
        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 (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