- NAME: Khushi Gharate
- CLASS: G3
- ROLL NO.:757

Colab link:

SOURCE CODE:

```python
import csv
f1=open("/content/Sales (2).csv","r")
productid=[]
productdetails=[]
customerdetails=[]
supplierdetails={}
gender={}

d1=list(csv.reader(f1,delimiter=','))
for i in range(len(d1)):
  productid.append(d1[i][0])
  productdetails.append(d1[i][1])
  customerdetails.append(d1[i][3])
  supplierdetails.update({d1[i][0]:d1[i][2]})
  gender.update({d1[i][3]:d1[i][4]})

#print(productid)
#print(productdetails)
#print(customerdetails)
print(supplierdetails)
print(gender)


frequency={}
for item in productdetails:
  if item in frequency:
    frequency[item]=frequency[item]+1
  else:
    frequency[item]=1
print(frequency)
marklist=sorted(frequency.items(),key=lambda x:x[1],reverse=True)

sortdict=dict(marklist)
print(sortdict)
print("The most popular product for
sales:",list(sortdict.keys())[0],"sold",list(sortdict.values())[0],"tim
es")
```

```
frequency={}
for item in supplierdetails.values():
  if item in frequency:
    frequency[item] +=1
  else:
    frequency[item]=1
print(frequency)
namelist=sorted(frequency.items(),key=lambda x:x[1],reverse=True)
sortdict=dict(namelist)
print(sortdict)
print("The most frequent customer is:",list(sortdict.keys())[0],"and
purchased item",list(sortdict.values())[0],"times")

#4) FIND THE NUMBER OF CUSTOMERS WHO ARE 'FEMALE'
frequency = {}
for item in gender.values():
  if item in frequency:
    frequency[item] += 1
  else:
    frequency[item]=1
print(frequency)
genderlist=sorted(frequency.items(),key= lambda x:x[1],reverse=True)
print("The number of customers who are
Female:",list(frequency.values())[2])
print("The number of customers who are
Male:",list(frequency.values())[1])
```

OUTPUT:

{'Product ID': 'Supplier Details', 'P00001': 'Raka Ele.', 'P00002': 'Vijay Sales', 'P00003': 'Gada Ele.', 'P00004': 'Surya Ele.', 'P00005': 'Raka Ele.', 'P00006': 'Gada Ele.', 'P00007'
{'Customer Details': 'Gender', 'Kaustubh Mahajan': 'Male', 'Siddhi Kiwale': 'Female', 'Sanket Kandalkar': 'Male', 'Yash Mali': 'Male', 'Yash Bagul': 'Male', 'Tanuja Mali': 'Female'}

```
{'Product details': 1, 'Lenovo Laptop': 6, 'Samsung M31': 5, 'Realmi 10pro': 2, 'Oppo F21': 3, 'LG TV 32"': 4}
{'Lenovo Laptop': 6, 'Samsung M31': 5, 'LG TV 32"': 4, 'Oppo F21': 3, 'Realmi 10pro': 2, 'Product details': 1}
The most popular product for sales: Lenovo Laptop sold 6 times
```

```
{'Supplier Details': 1, 'Raka Ele.': 6, 'Vijay Sales': 3, 'Gada Ele.': 5, 'Surya Ele.': 4, 'Deshmukh sales': 2}
{'Raka Ele.': 6, 'Gada Ele.': 5, 'Surya Ele.': 4, 'Vijay Sales': 3, 'Deshmukh sales': 2, 'Supplier Details': 1}
The most frequent customer is: Raka Ele. and purchased item 6 times
```

```
{'Gender': 1, 'Male': 4, 'Female': 2}
The number of customers who are Female: 2
The number of customers who are Male: 4
```