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DIV: E

BATCH: E4

ROLL NO: 569

```
import csv
from collections import Counter f1
= open("/content/Sales.csv","r")
product_details = [ ]
customer_details = [ ]
supplier_details = { } supplist =
[ ] gender = [ ] while(True):
    data = f1.readline() if not
data: break; #print(data)
data = data.replace("\n","")
# print(data) temp =
data.split(",") print(temp)
product_details.append(temp[1])
customer_details.append(temp[3]) # type: ignore
supplier_details.update({temp[1]:temp[2]})
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supplist.append(temp[2])
gender.append(temp[4]) f1.close()
customer_details = tuple(customer_details) #
print(supplist)
# print(supplier_details)
frequency = { } for items in
product_details: if items in
frequency: frequency[items]+=1
else:
    frequency[items]=1
# print("\n\n\n")
# print(frequency.items()) # print("\n\n\n\n\n")
marklist = sorted(frequency.items(),key = lambda x:
x[1],reverse = True)
# print(marklist)
# marklist= dict(marklist)
# print(marklist) print(f"Most Popular Item is :
{marklist[0][0]}")
# print(supplier_details) supplierList =
list(supplier_details.items())
# print(supplierList)
CounterDict = Counter(supplist) #
print(CounterDict) poplist =
sorted(CounterDict.items(),key = lambda x :
x[1], reverse = True) poplist = list(poplist)
print(f"Best Supplier is: {poplist[0][0]}")
CountCustomer = Counter(customer_details)
# print(CountCustomer)
CustomerCountList = sorted(CountCustomer.items(),key =
lambda x: x[1], reverse = True)
CustomerCountList = list(CustomerCountList)
print(f"Customer Who Bought Most Products is
{CustomerCountList[0][0]}")
# print(gender)
countGender = Counter(gender) # countGender =
list(countGender) a =
(countGender.get("Female")) print(f'No of
Females are: {a}')

```

OUTPUT:

['Product ID', 'Product details', 'Supplier Details', 'Customer Details', 'Gender']

['P00001', 'Lenovo Laptop', 'Raka Ele.', 'Kaustubh Mahajan', 'Male']

['P00002', 'Samsung M31', 'Vijay Sales', 'Siddhi Kiwale', 'Female']

['P00003', 'Realmi 10pro', 'Gada Ele.', 'Sanket Kandalkar', 'Male']

['P00004', 'Oppo F21', 'Surya Ele.', 'Yash Mali', 'Male']

['P00005', 'Lenovo Laptop', 'Raka Ele.', 'Yash Bagul', 'Male']

['P00006', 'Samsung M31', 'Gada Ele.', 'Siddhi Kiwale', 'Female']

['P00007', '"LG TV 32"', 'Vijay Sales', 'Sanket Kandalkar', 'Male']

['P00008', 'Oppo F21', 'Surya Ele.', 'Kaustubh Mahajan', 'Male']

['P00009', 'Lenovo Laptop', 'Raka Ele.', 'Yash Mali', 'Male']

['P00010', 'Samsung M31', 'Gada Ele.', 'Siddhi Kiwale', 'Female']

['P00011', '"LG TV 32"', 'Surya Ele.', 'Sanket Kandalkar', 'Male']

['P00012', 'Lenovo Laptop', 'Raka Ele.', 'Kaustubh Mahajan', 'Male']

['P00013', 'Samsung M31', 'Surya Ele.', 'Yash Mali', 'Male']

['P00014', 'Realmi 10pro', 'Raka Ele.', 'Siddhi Kiwale', 'Female']

['P00015', 'Lenovo Laptop', 'Gada Ele.', 'Tanuja Mali', 'Female']

['P00016', 'Oppo F21', 'Vijay Sales', 'Kaustubh Mahajan', 'Male']

['P00017', '"LG TV 32"', 'Deshmukh sales', 'Sanket Kandalkar', 'Male']

['P00018', 'Lenovo Laptop', 'Raka Ele.', 'Siddhi Kiwale', 'Female']

['P00019', 'Samsung M31', 'Deshmukh sales', 'Kaustubh Mahajan', 'Male']

['P00020', '"LG TV 32"', 'Gada Ele.', 'Yash Mali', 'Male']

Most Poppular Item is: Lenovo Laptop

Best Supplier is: Raka Ele.

Customer Who Bought Most Products is Kaustubh Mahajan

No of Females are: 6

Process finished with exit code 0



