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E1

## Source Code:

```
import csv
from collections import Counter
f1 = open("CSV's/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]})
    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")
marklist = sorted(frequency.items(),key = lambda x:
x[1],reverse = True)
# print(marklist)
# marklist= dict(marklist)
# print(marklist)
print(f"Most Poppular 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:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

● (base) kartikeysapkal@Kartikeys-MacBook-Air Python % python -u "/Users/kartikeysapkal/Documents/Python/
['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
○ (base) kartikeysapkal@Kartikeys-MacBook-Air Python %
```