Assignment 2

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Batch-G2

SOURCE CODE:

```python
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:
```

```python
        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

['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