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D-407

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ESSENTIALS OF DATA SCIENCE

PRACTICAL ASSIGNMENT 2

DATA RECORD (INPUT):

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

OUTPUT:

```python
with open('Sales.csv', 'r') as file:

data = file.readlines()

data = [row.strip() for row in data[1:]]

#print(data)

product_id = [row.split(',')[0] for row in data]

product_details = [row.split(',')[1] for row in data]

supplier_details = [row.split(',')[2] for row in data]

customer_details = [row.split(',')[3] for row in data]

gender = [row.split(',')[4] for row in data]

def find_frequent(a_list):

count, product_list = 0, []

for product in set(a_list):

if a_list.count(product) > count:

count = a_list.count(product)

product_list = []

product_list.append(product)

elif a_list.count(product) == count:

product_list.append(product)

return product_list

print('most popular prodcut:', find_frequent(product_details))

print('best supplier:',find_frequent(supplier_details))

print('best customer',find_frequent(customer_details))

print('most frequent gender is:',find_frequent(gender))
```

most popular prodcut: ['Lenovo Laptop']

best supplier: ['Raka Ele.']

best customer ['Kaustubh Mahajan', 'Siddhi Kiwale']

most frequent gender is: ['Male']