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Assignment 2:-

```python
import pandas as pd
df = pd.read_excel("/content/drive/MyDrive/Sales.xlsx")
lst = df['Product details'].to_list()
print(lst)

def most_frequent(lst):
    return max(set(lst), key = lst.count)
print("The most popular product is",most_frequent(lst))
gend = df.iloc[:,4]
fem = (gend =="Female")
print("The number of females is" ,fem.sum())
tup = tuple(df["Customer Details"])

def most_frequent(tup):
    return max(set(tup), key = tup.count)
print('The Customer who buys most products is',most_frequent(tup))

dict1 = df["Supplier Details"].to_dict()
print(dict1)
from statistics import mode
best_supp = mode(dict1.values())
print('The best supplier is',best_supp)
```

Output:-

```
['Lenovo Laptop', 'Samsung M31', 'Realmi 10pro', 'Oppo F21', 'Lenovo
Laptop', 'Samsung M31', 'LG TV 32"', 'Oppo F21', 'Lenovo Laptop',
'Samsung M31', 'LG TV 32"', 'Lenovo Laptop', 'Samsung M31', 'Realmi
10pro', 'Lenovo Laptop', 'Oppo F21', 'LG TV 32"', 'Lenovo Laptop',
'Samsung M31', 'LG TV 32"']
The most popular product is Lenovo Laptop
The number of females is 6
The Customer who buys most products is Kaustubh Mahajan
{0: 'Raka Ele.', 1: 'Vijay Sales', 2: 'Gada Ele.', 3: 'Surya Ele.', 4:
'Raka Ele.', 5: 'Gada Ele.', 6: 'Vijay Sales', 7: 'Surya Ele.', 8:
'Raka Ele.', 9: 'Gada Ele.', 10: 'Surya Ele.', 11: 'Raka Ele.', 12:
'Surya Ele.', 13: 'Raka Ele.', 14: 'Gada Ele.', 15: 'Vijay Sales', 16:
'Deshmukh sales', 17: 'Raka Ele.', 18: 'Deshmukh sales', 19: 'Gada
Ele.'}
bb
The best supplier is Raka Ele.
```

Data in Excel:

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	Product ID	Product details	Supplier Details	Customer Details	Gender
0	P00001	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
1	P00002	Samsung M31	Vijay Sales	Siddhi Kiwale	Female
2	P00003	Realmi 10pro	Gada Ele.	Sanket Kandalkar	Male
3	P00004	Oppo F21	Surya Ele.	Yash Mali	Male
4	P00005	Lenovo Laptop	Raka Ele.	Yash Bagul	Male
5	P00006	Samsung M31	Gada Ele.	Siddhi Kiwale	Female
6	P00007	LG TV 32"	Vijay Sales	Sanket Kandalkar	Male
7	P00008	Oppo F21	Surya Ele.	Kaustubh Mahajan	Male
8	P00009	Lenovo Laptop	Raka Ele.	Yash Mali	Male
9	P00010	Samsung M31	Gada Ele.	Siddhi Kiwale	Female
10	P00011	LG TV 32"	Surya Ele.	Sanket Kandalkar	Male
11	P00012	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
12	P00013	Samsung M31	Surya Ele.	Yash Mali	Male
13	P00014	Realmi 10pro	Raka Ele.	Siddhi Kiwale	Female
14	P00015	Lenovo Laptop	Gada Ele.	Tanuja Mali	Female
15	P00016	Oppo F21	Vijay Sales	Kaustubh Mahajan	Male
16	P00017	LG TV 32"	Deshmukh sales	Sanket Kandalkar	Male
17	P00018	Lenovo Laptop	Raka Ele.	Siddhi Kiwale	Female
18	P00019	Samsung M31	Deshmukh sales	Kaustubh Mahajan	Male
19	P00020	LG TV 32"	Gada Ele.	Yash Mali	Male

Thank You!