Name - Ojas Denge
Division - G (4)
Roll No. - 777
PRN No. - 202201070072

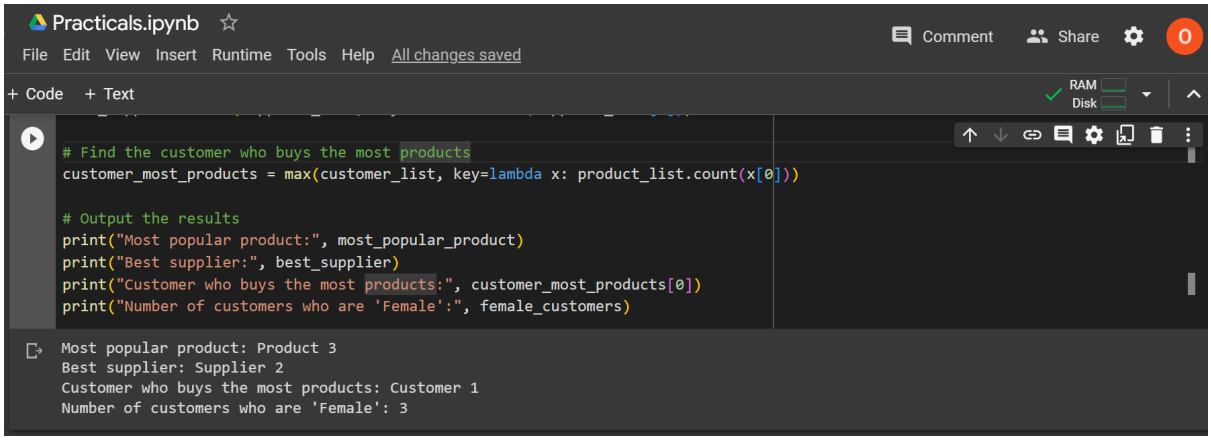
EDS PRACTICAL-2

Code:

```
mport csv

# Read the data from Sales.csv
product_list = []
supplier_dict = {}
customer_list = []
female_customers = 0

with open('/content/drive/MyDrive/Colab
Notebooks/Files/Practical2.csv', 'r') as file:
    reader = csv.reader(file)
    next(reader)  # Skip the header row

    # Store Product details in a List data structure
    for row in reader:
        product_list.append(row[0])

        # Store Supplier details in a Dictionary data structure
        supplier = row[1]
        product = row[0]
        if supplier in supplier_dict:
            supplier_dict[supplier].append(product)
        else:
            supplier_dict[supplier] = [product]

        # Store Customer details in a Tuple data structure
        customer = row[2]
        gender = row[3]
        customer_list.append((customer, gender))

        # Find the number of customers who are 'Female'
        if gender == 'Female':
            female_customers += 1

# Find the most popular product for sale
most_popular_product = max(set(product_list), key=product_list.count)

# Find the best supplier for sales
```

```
best_supplier = max(supplier_dict, key=lambda k: len(supplier_dict[k]))

# Find the customer who buys the most products
customer_most_products = max(customer_list, key=lambda x:
product_list.count(x[0]))

# Output the results
print("Most popular product:", most_popular_product)
print("Best supplier:", best_supplier)
print("Customer who buys the most products:",
customer_most_products[0])
print("Number of customers who are 'Female':", female_customers)
```

Output:



Google Colaboratory Link:
https://colab.research.google.com/drive/1rZetINUegCObbBIM3zcBBY-G5tQh9HjU?usp=sharing