

```
import csv

# Initialize data structures
product_details = []
supplier_details = {}
customer_details = []
female_customers = 0

# Read data from file
with open('/content/Sales1.csv', 'r') as file:
    reader = csv.reader(file)
    next(reader) # Skip header row

# Process each row in the file
for row in reader:
    # Extract data from the row
    product_id, product, supplier, customer, gender = row

    # Store product details in a list
    product_details.append(product)

    # Store supplier details in a dictionary
    if supplier not in supplier_details:
        supplier_details[supplier] = 1
    else:
        supplier_details[supplier] += 1

    # Store customer details in a tuple
    customer_details.append((customer, gender))

# Count female customers
```

```
if gender.lower() == 'female':
    female_customers += 1

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

# Find the best supplier for sales
best_supplier = max(supplier_details, key=supplier_details.get)

# Find the customer who buys most of the products
customer_purchase_counts = {}
for customer, _ in customer_details:
    if customer not in customer_purchase_counts:
        customer_purchase_counts[customer] = 1
    else:
        customer_purchase_counts[customer] += 1

most_purchases = max(customer_purchase_counts, key=customer_purchase_counts.get)

# Print the results
print("Most popular product for sale:", popular_product)
print("Best supplier for sales:", best_supplier)
print("Customer who buys most products:", most_purchases)
print("Number of female customers:", female_customers)
```

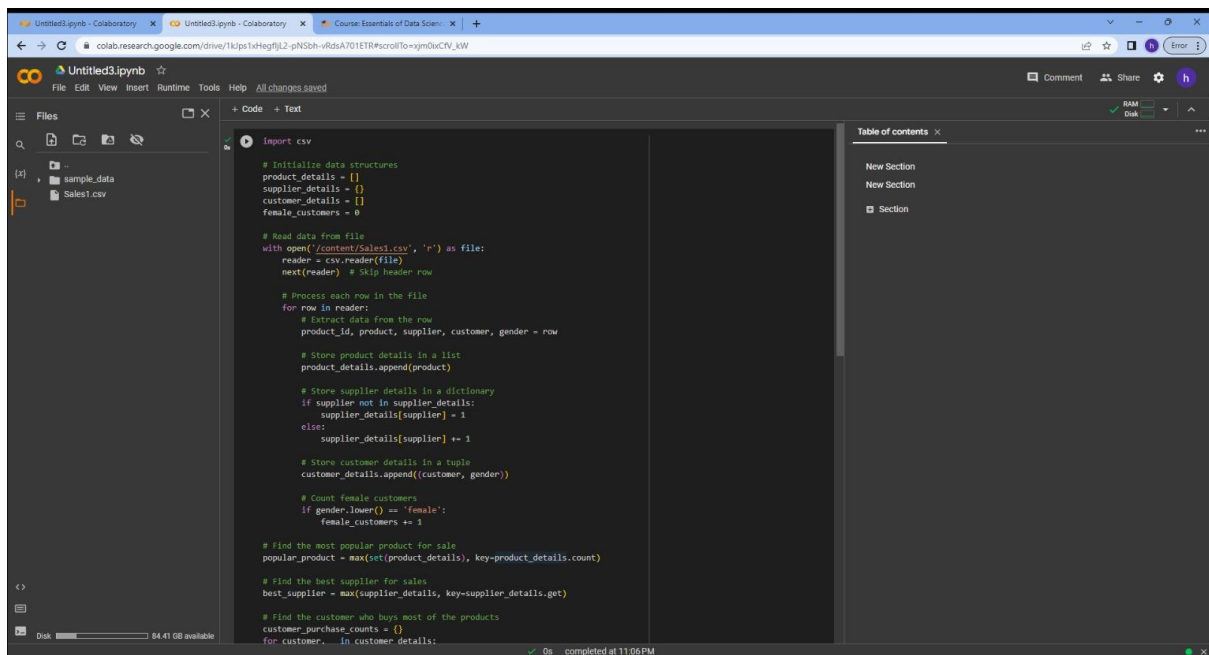
## Output

Most popular product for sale: Lenovo Laptop

Best supplier for sales: Raka Ele.

Customer who buys most products: Kaustubh Mahajan

Number of female customers: 6



```
import csv

# Initialize data structures
product_details = []
supplier_details = {}
customer_details = {}
female_customers = 0

# Read data from file
with open("/content/Sales1.csv", 'r') as file:
    reader = csv.reader(file)
    next(reader) # Skip header row

# Process each row in the file
for row in reader:
    # Extract data from the row
    product_id, product, supplier, customer, gender = row

    # Store product details in a list
    product_details.append(product)

    # Store supplier details in a dictionary
    if supplier not in supplier_details:
        supplier_details[supplier] = 1
    else:
        supplier_details[supplier] += 1

    # Store customer details in a tuple
    customer_details.append((customer, gender))

    # Count female customers
    if gender.lower() == 'female':
        female_customers += 1

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

# Find the best supplier for sales
best_supplier = max(supplier_details, key=supplier_details.get)

# Find the customer who buys most of the products
customer_purchase_counts = {}
for customer, _ in customer_details:
```

Untitled3.ipynb - Colaboratory

colab.research.google.com/drive/1kps1xHegHjL2-pN5bh-vkdsA701ETR#scrollTo=xym0ncFV\_KW

Untitled3.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

sample\_dataSales1.csv

+ Code + Text

```
product_details.append(product)

# Store supplier details in a dictionary
if supplier not in supplier_details:
    supplier_details[supplier] = 1
else:
    supplier_details[supplier] += 1

# Store customer details in a tuple
customer_details.append((customer, gender))

# Count female customers
if gender.lower() == 'female':
    female_customers += 1

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

# Find the best supplier for sales
best_supplier = max(supplier_details, key=supplier_details.get)

# Find the customer who buys most of the products
customer_purchase_counts = {}
for customer, _ in customer_details:
    if customer not in customer_purchase_counts:
        customer_purchase_counts[customer] = 1
    else:
        customer_purchase_counts[customer] += 1
most_purchases = max(customer_purchase_counts, key=customer_purchase_counts.get)

# Print the results
print("Most popular product for sale:", popular_product)
print("Best supplier for sales:", best_supplier)
print("Customer who buys most products:", most_purchases)
print("Number of female customers:", female_customers)
```

Table of contents

New SectionNew SectionSection

Most popular product for sale: Lenovo Laptop  
Best supplier for sales: Raka Ele.  
Customer who buys most products: Kaustubh Rahajun  
Number of female customers: 6

RAM  
Disk

84.41 GB available

completed at 11:06 PM

OneDrive  
Screenshot saved  
The screenshot was added to your OneDrive