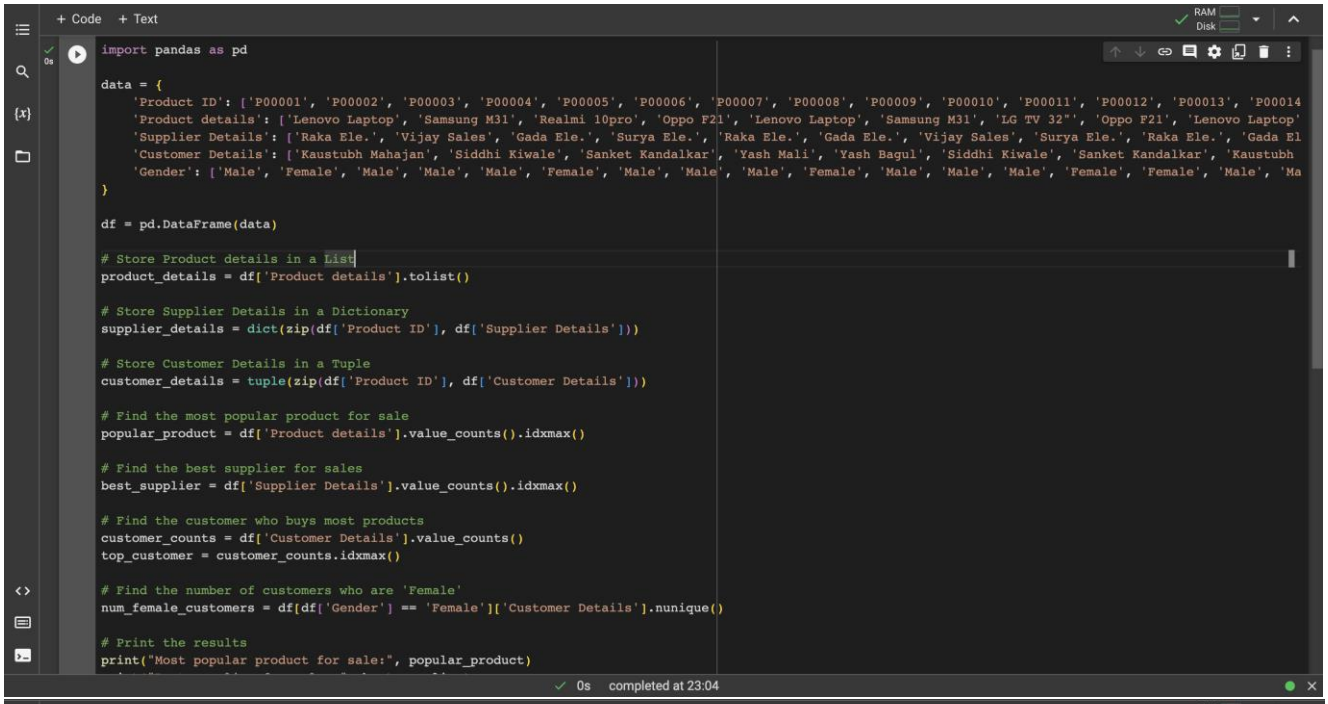
EDs assignment 1



```
import pandas as pd

data = {
    'Product ID': ['P00001', 'P00002', 'P00003', 'P00004', 'P00005', 'P00006', 'P00007', 'P00008', 'P00009', 'P00010', 'P00011', 'P00012', 'P00013', 'P00014
    'Product details': ['Lenovo Laptop', 'Samsung M31', 'Realmi 10pro', 'Oppo F21', 'Lenovo Laptop', 'Samsung M31', 'LG TV 32"', 'Oppo F21', 'Lenovo Laptop'
    'Supplier Details': ['Raka Ele.', 'Vijay Sales', 'Gada Ele.', 'Surya Ele.', 'Raka Ele.', 'Gada Ele.', 'Vijay Sales', 'Surya Ele.', 'Raka Ele.', 'Gada El
    'Customer Details': ['Kaustubh Mahajan', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Yash Mali', 'Yash Bagul', 'Siddhi Kiwale', 'Sanket Kandalkar', 'Kaustubh
    'Gender': ['Male', 'Female', 'Male', 'Male', 'Male', 'Female', 'Male', 'Male', 'Male', 'Female', 'Male', 'Male', 'Male', 'Female', 'Female', 'Male', 'Ma
}

df = pd.DataFrame(data)

# Store Product details in a List
product_details = df['Product details'].tolist()

# Store Supplier Details in a Dictionary
supplier_details = dict(zip(df['Product ID'], df['Supplier Details']))

# Store Customer Details in a Tuple
customer_details = tuple(zip(df['Product ID'], df['Customer Details']))

# Find the most popular product for sale
popular_product = df['Product details'].value_counts().idxmax()

# Find the best supplier for sales
best_supplier = df['Supplier Details'].value_counts().idxmax()

# Find the customer who buys most products
customer_counts = df['Customer Details'].value_counts()
top_customer = customer_counts.idxmax()

# Find the number of customers who are 'Female'
num_female_customers = df[df['Gender'] == 'Female']['Customer Details'].nunique()

# Print the results
print("Most popular product for sale:", popular_product)
```

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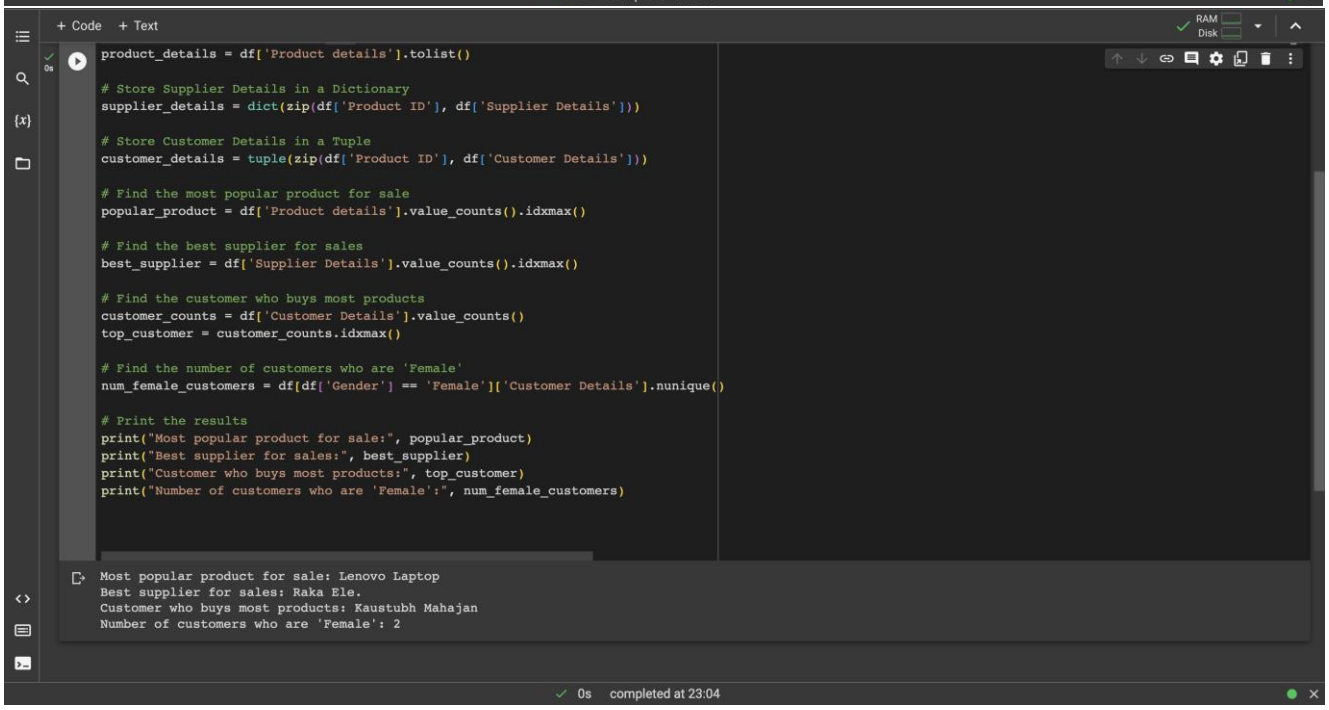

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# Find the best supplier for sales
best_supplier = df['Supplier Details'].value_counts().idxmax()

# Find the customer who buys most products
customer_counts = df['Customer Details'].value_counts()
top_customer = customer_counts.idxmax()

# Find the number of customers who are 'Female'
num_female_customers = df[df['Gender'] == 'Female']['Customer Details'].nunique()

# Print the results
print("Most popular product for sale:", popular_product)
print("Best supplier for sales:", best_supplier)
print("Customer who buys most products:", top_customer)
print("Number of customers who are 'Female':", num_female_customers)
```

```
Most popular product for sale: Lenovo Laptop
Best supplier for sales: Raka Ele.
Customer who buys most products: Kaustubh Mahajan
Number of customers who are 'Female': 2
```

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