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Name :Ritesh Mehetre ,Roll No:536
import csv

# Read data from Sales.csv
def read_csv(filename):
    data = []
    with open(filename, 'r') as file:
        reader = csv.reader(file)
        header = next(reader)  # Read the header
        for row in reader:
            data.append(row)
    return data

# File location of Sales.csv
filename = r"C:\Users\91928\OneDrive\Desktop\New folder\Sales.csv"

# Store product details in a list
product_details = read_csv(filename)

# Store supplier details in a dictionary
supplier_details = {}
for product in product_details:
    supplier_name = product[2]  # Assuming supplier name is in the third column
    if supplier_name not in supplier_details:
        supplier_details[supplier_name] = 0
    supplier_details[supplier_name] += 1

# Store customer details in a tuple
customer_details = tuple(set([product[3] for product in product_details]))

# Find the most popular product for sale
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popular_product = max(product_details, key=lambda x: int(x[0].replace("P", "")))  # Assuming Product ID is in the first column
most_popular_product = popular_product[1]  # Assuming Product details are in the second column

# 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_purchases = {customer: 0 for customer in customer_details}
for product in product_details:
    customer_purchases[product[3]] += 1
customer_most_purchases = max(customer_purchases, key=customer_purchases.get)

# Find the number of customers who are 'Female'
female_customers = sum(1 for product in product_details if product[4] == 'Female')  # Assuming gender is in the fifth column

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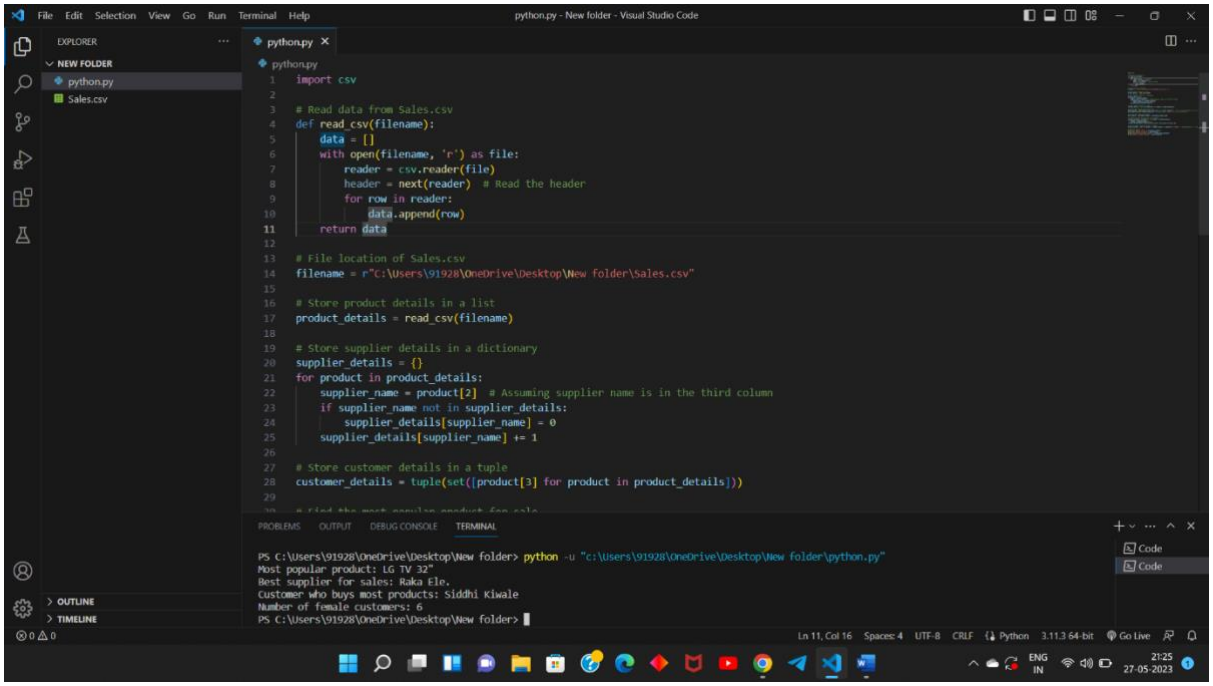
Output:

Most popular product: LG TV 32"

Best supplier for sales: Raka Ele.

Customer who buys most products: Siddhi Kiwale

Number of female customers: 6


File Edit Selection View Go Run Terminal Help
python.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
python.py
Sales.csv
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\91928\OneDrive\Desktop\New folder> python -u "c:\Users\91928\OneDrive\Desktop\New folder\python.py"
Most popular product: LG TV 32"
Best supplier for sales: Raka Ele.
Customer who buys most products: Siddhi Kiwale
Number of female customers: 6
PS C:\Users\91928\OneDrive\Desktop\New folder>
OUTLINE
TIMELINE
Ln 11, Col 16 Spaces: 4 UTF-8 CRLF Python 3.11.3 64-bit Go Live
ENG IN
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