**Problem Statement:**

You are given a CSV file called **sales\_data.csv** that contains order information for an e-commerce company. Each row in the file represents an order.

The file has the following columns:

order\_id,customer\_id,order\_date,product,quantity,price

**Your Task:**

Write a **Python batch processing script** that:

1. **Loads the CSV file** using Pandas.
2. **Cleans the data**:
   * Remove rows with missing values.
   * Ensure quantity and price are numeric.
3. **Performs aggregations**:
   * Calculate the **total revenue** per product.
   * Find the **top 5 customers** by total spending.
   * Count how many orders were placed each month.
4. **Outputs the results** into separate CSV files:
   * product\_revenue.csv
   * top\_customers.csv
   * monthly\_orders.csv

**Sample Input (sales\_data.csv):**

order\_id,customer\_id,order\_date,product,quantity,price

1,101,2025-01-15,Mobile,2,500

2,102,2025-01-20,Laptop,1,1200

3,103,2025-02-05,Tablet,3,300

4,101,2025-02-08,Mobile,1,500

5,104,2025-02-10,Headphones,5,50

**Expected Output:**

**product\_revenue.csv**

product,total\_revenue

Mobile,1500

Laptop,1200

Tablet,900

Headphones,250

**top\_customers.csv**

customer\_id,total\_spending

101,1500

102,1200

103,900

104,250

**monthly\_orders.csv**

month,total\_orders

2025-01,2

2025-02,3