8. Scenario: You are a data scientist working for a company that sells products online. You have

been tasked with analyzing the sales data for the past month. The data is stored in a Pandas data

frame.

Question: How would you find the top 5 products that have been sold the most in the past month?

Code:

df = pd.read\_excel(r"C:\Users\hares\Downloads\sales\_data1.xlsx")

df['Order Date'] = pd.to\_datetime(df['Order Date'])

top\_5\_products = df.groupby('Product Name')['Quantity Sold'] \

.sum() \

.sort\_values(ascending=False) \

.head(5) \

.reset\_index()

print(" Top 5 Best-Selling Products:")

print(top\_5\_products)

output ;

Top 5 Best-Selling Products:

Product Name Quantity Sold

0 Mouse 24

1 Laptop 18

2 Keyboard 9

3 Monitor 7

Dataset :

|  |  |  |
| --- | --- | --- |
| **Product Name** | **Order Date** | **Quantity Sold** |
| Laptop | 01-03-24 | 5 |
| Mouse | 05-03-24 | 10 |
| Keyboard | 06-03-24 | 4 |
| Mouse | 07-03-24 | 6 |
| Monitor | 10-03-24 | 3 |
| Laptop | 15-03-24 | 7 |
| Mouse | 18-03-24 | 8 |
| Keyboard | 20-03-24 | 5 |
| Laptop | 25-03-24 | 6 |
| Monitor | 28-03-24 | 4 |