Task 8: K-Means Clustering — Mall Customers

Self-contained repo for K-Means clustering with the **Mall Customers**
schema (Kaggle-compatible).

Run
```bash
pip install -r requirements.txt
python kmeans_clustering.py                # uses data/Mall_Customers.csv
# or with Kaggle CSV (drop it into data/):
python kmeans_clustering.py --data data/Mall_Customers.csv --k 5
```

Outputs
- `outputs/elbow_method.png`
- `outputs/clustering_report.txt`
- `outputs/clusters_first2.png`

Interview Q&A excluded.