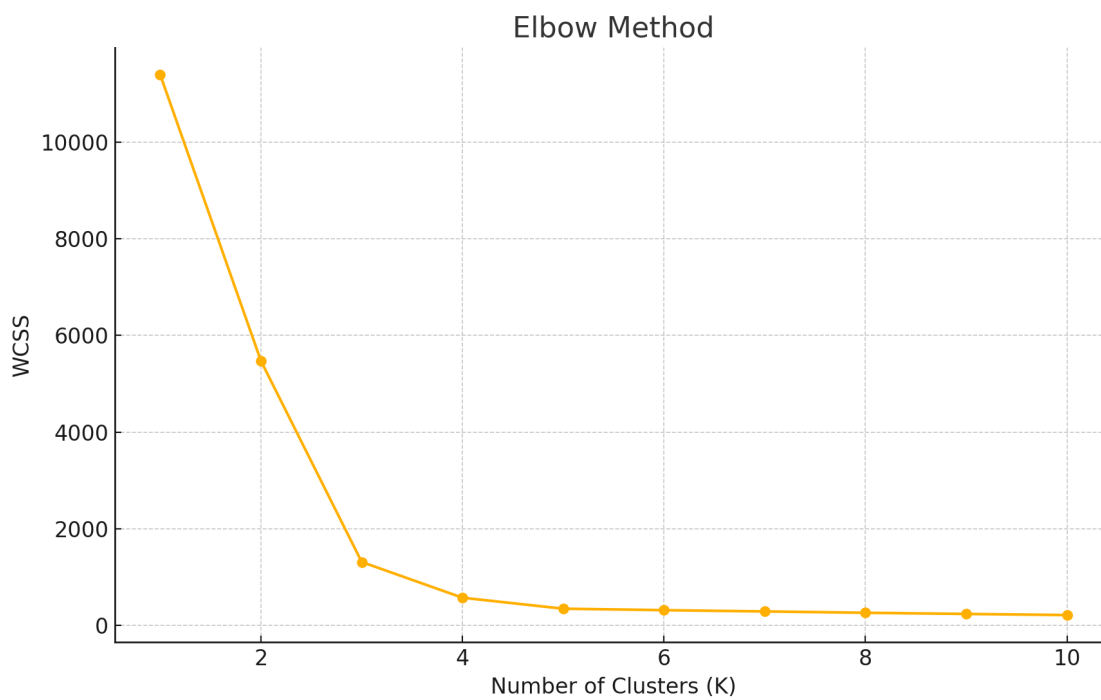


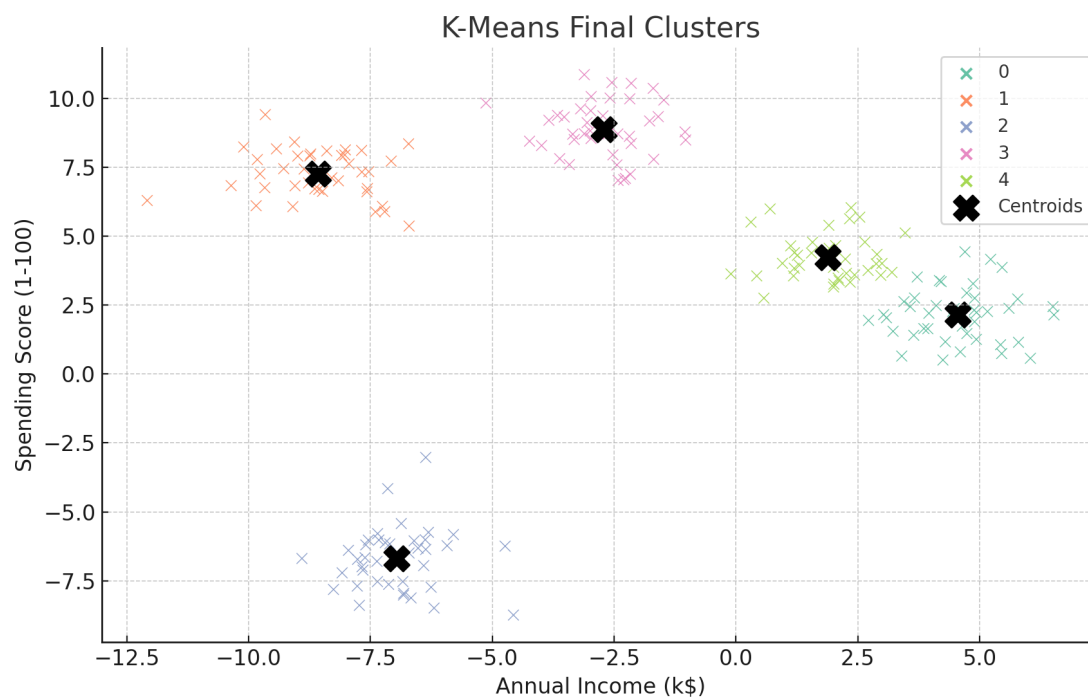
Task 8: Clustering with K-Means

Objective: Perform unsupervised learning with K-Means clustering.

Dataset: Synthetic data (similar to Mall Customer Segmentation)

1. Generated synthetic customer-like data.
2. Applied KMeans clustering and visualized clusters.
3. Used Elbow Method to determine optimal K.
4. Final clustering performed using K=5.
5. Evaluated clustering with Silhouette Score.





Silhouette Score: 0.67