K-means clustering

Illustrate the k-means clustering to cluster the data points for at least five epoch properly.

How to Implementing K-Means Clustering?

1. Import Dataset
2. Import necessary libraries - sklearn, numpy, pandas, etc.
3. Choose the number of clusters k
4. Select k random points from the data as centroids
5. Assign all the points to the closest cluster centroid
6. Recompute the centroids of newly formed clusters
7. Repeat steps 3 and 4

- Using the elbow method to determine the optimal number of clusters for k-means clustering
- Visualising the clusters
- Plotting the centroids of the clusters

Dataset:
- https://archive.ics.uci.edu/ml/machine-learning-databases/