k-means clusturing

Aim: To implement and design k-means cluster using weka

Algorithm:

1. Choose the number of clusters k.
2. Randomly select k datapoints as cluster center.
3. Select cluster center in such a way they are farther as possible from each other.
4. Calculate distance between data point and cluster center.
5. Assign each data point to some cluster.
6. A data point is assigned to that cluster where center is nearest to the data center.
7. Recompute the center of nearly formed clusters.
8. Keep repeating the procedure until newly formed cluster do not change.

