**K- means cluster**

1)Aim: To implement and design kmeans cluter algorithm using weka.

Algorithm:

* Choose the number of cluster K.
* Randomly select any K data point as cluster centres.
* Select cluster centres in such a way that they are as further as possible form each other.
* Calculate distance between each data point& each cluster centre.
* Assign each data point to same cluster.
* A data point is assigned to that cluster whose center in nearest to data point.
* Re-compute the center of newly formed clusters.
* Keep repeating the procedure from step4 to step6 until center of newly formed clusters do not change.

Output:

