1. **Write a program to implement k-means clustering algorithm**

public void clusterData(){

kmeans = new SimpleKMeans();

kmeans.setSeed(10);

try {

kmeans.setPreserveInstancesOrder(true);

kmeans.setNumClusters(10);

kmeans.buildClusterer(cpu);

int[] assignments = kmeans.getAssignments();

int i = 0;

for(int clusterNum : assignments) {

System.out.printf("Instance %d -> Cluster %d\n", i, clusterNum);

i++;

}

} catch (Exception e1) {

}

}