Lab 7 assignment

1. Dataset ‘file01.txt’:

- Find the optimal number of clusters.

- Carry out the procedure of data clustering by the k-means method. Graph the results.

- Output information about which cluster each observation fell into.

- Perform the k-means clustering procedure using a different metric for determining the distance between clusters.

2. Dataset ‘file02.txt’:

- Find the optimal number of clusters.

- Perform the hierarchical clustering procedure. Depict the results on a graph.

- Output information about which cluster each observation fell into.

- Perform the hierarchical clustering procedure using a different metric for determining the distance between clusters.

3. Dataset ‘file07.txt’:

- Find the optimal number of clusters.

- Perform the data clustering procedure using k-means method. Depict the results in a graph.

- Output information about which cluster each observation fell into.

- Perform k-means clustering using a different metric for determining the distance between clusters.