Assignment on unsupervised

1. Create an unlabelled dataset composed of five blobs. Decide on the value of K after visualizing the data. Train K means algorithm on this dataset. Display the predicted value and the cluster centroids.

Assign the new instance ([0,2], [3,2], [-3,3], [-3,2.5]) to the closest cluster

1. Implement Hierarchical clustering algorithm for the dataset formed in the above program. Plot the dendrogram. Mark the cuts in the tree that signify 3,4 and 5 clusters.