

# CSE4214 Pattern Recognition Lab

## Experiment No 5

### Implementing K-Means Clustering

#### Problem Description:

1. Take input from the given source data file and plot all the points.
2. Perform the k-means clustering algorithm applying Euclidean distance as a distance measure on the given dataset with  $k=2$ .
3. Color the corresponding points on the clusters with different colors.

Try to generalize your code as much as possible. Take random points from the given data as initial centroids.

#### Marks Distribution:

Task	Mark
1	2
2	5
3	3

#### Sample Output:

