LAB-4: CLUSTERING TECHNIQUES

- 1. Download Iris dataset and make it suitable for unsupervised learning.
- 2. Normalize the data.
- 3. Display middle 10 rows.
- 4. Display frequency variation for each feature after discretizing it.
- 5. Display any plot to show statistical information of each feature w.r.t. labels.
- 6. Display for each value of K, the sum of squared distance between each point and the centroid in a cluster.
- 7. Find the optimal number of clusters for K-means clustering (hint: use result of ques. 5).
- 8. Display heat map.
- 9. Use result of ques. 6 and 7 to display the result of k mean cluster in 2D plot and 3D plot.
- 10. Implement question ques. 9 using following techniques:
 - a. K-medoid
 - b. CLARANS
 - c. BIRCH