WORKSHEET SET-2

MACHINE LEARNING ASSIGNMENT

Answer 1:- A

Answer 2 :- D

Answer 3 :- A

Answer 4 :- A

Answer 5 :- B

Answer 6 :- B

Answer 7 :- A

Answer 8 :- D

Answer 9 :- A

Answer 10 :- D

Answer 11 :- D

QUESTION 12 Is K sensitive to outliers?

Answer 12 k is sensitive to outliers, when we use k-mean for any data set having outliers than its centroid is affected by that outliers. Centroid for any cluster is not located correctly when any outlier is present, It is not easy to find centroid for dataset present with outliers but when we use k-medoids it uses the actual point to represent the centroid in the cluster.Medoid is the most centrally located object of the cluster, with minimum sum of distances to other points.

QUESTION 13 Why is K means better?

ANSWER 13 K mean algorithm is better than other due to following reasons

1. Easy to use and implement
2. It can be applied to large datasets
3. It easily adopt new problem and work on it
4. It can easily be started by placing centroid randomly any point in given cluster
5. Generalize to cluster of different shape and size.

Question 14 Is K means a deterministic algorithm?

Answer 14 K means is not deterministic algorithm, it give different results of different execution on same datasets. Non deterministic nature of k mean algorithm is because it chooses initial centroid differently at every execution.it randomly select the initial centroid every time on execution.