MACHINE LEARNING (Assignment 2)

Answer 1:- d) 2 and 3

Answer 2:- d) 1, 2 and 4

Answer 3:- a) True

Answer 4:- a) 1 only

Answer 5:- b) 1

Answer 6 :- a) Yes

Answer 7:- a) Yes

Answer 8:- d) All of the above

Answer 9:- a) K-means clustering algorithm

Answer10:- d) All of the above

Answer11:- d) All of the above

Answer12:- The K-means clustering algorithm is sensitive to outliers, because a mean is easily influenced by extreme values. K-medoids clustering is a variant of K-means that is more robust to noises and outliers.

Answer13:- Scales to large data sets. Guarantees convergence., Can warm-start the positions of centroids., Guarantees convergence, Can warm-start the positions of centroids.

Answer14:- The basic k-means clustering is based on a non-deterministic algorithm.This means that running the algorithm several times on the same data, could give different results..