MACHINE LEARNING WS-2

QUESTION 1)

ANSWER-B)

QUESTION 2)

ANSWER-D)

QUESTION 3)

ANSWER-A)

QUESTION-4)

ANSWER-A)

QUESTION-5)

ANSWER-B

QUESTION-6)

ANSWER-B)

QUESTION-7)

ANSWER-A)

QUESTION 8)

ANSWER-D)

QUESTION 9)

ANSWER-A)

QUESTION 10)

ANSWER-D)

QUESTION 11)

ANSWER-D)

QUESTION 12)

ANSWER-The K-means clustering algorithm is sensitive to outliers and it is because the mean is easily influenced by extreme values.

QUESTION 13)

ANSWER-here are some of the advantages of K means which makes it better,-

1) Relatively simple to implement.
2) Scales to large data sets.
3) Guarantees convergence.
4) Can warm-start the positions of centroids.
5) Easily adapts to new examples.
6) Generalizes to clusters of different shapes and sizes, such as elliptical clusters.

QUESTION 14)

ANSWER- No,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.