Machine Learning Assignment 2

1. A)
2. D)
3. A)
4. A
5. B)
6. B)
7. A)
8. D)
9. D)
10. A)
11. D)
12. D)
13. The *K*-means clustering algorithm is sensitive to outliers, because a mean is easily influenced by extreme values.
14. K means clustering is better because once clusters and their associated centroids are identified, it is easy to assign new objects (for example, new customers) to a cluster based on the object's distance from the closest centroid. Because the method is unsupervised, using k-means helps to eliminate subjectivity from the analysis
15. 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.