## Artificial Intelligence assignment list (CSMP-305)

- K-means Clustering on the Iris Dataset
- 2. K-medoid Clustering on Iris dataset.
- 3. Apply AGNES (single linkage, complete linkage, average linkage) on Iris dataset for clustering.
- 4 Apply DIANA (single linkage, complete linkage, average linkage) on Iris dataset for clustering.
- 5. Draw decision tree using ID3 algorithm on golf playing dataset.
- 6 Apply CART on buy computer dataset.
- 7. Apply naïve Bayesian algorithm on buy computer dataset to identify class label of unknown samples.
  - 8. Apply back propagation algorithm on sample {1,0,1} with the class label {1,0}. (Where network topology: 3-2-2-2, all biases and weights are initialized at 0)
  - 9. Apply fuzzy c means algorithm on Boston Housing Dataset.
- 16. Apply perceptron for realization of logic gates. (bias = 1)
- Apply Madeline algorithm for Bipolar XOR gates. (Weights are randomly initialized, v0, v1, v2 = 0.5, bias values are set to 1, learning rate = 0.5, Network topology: 2-2-1)
- 12. Apply Madeline algorithm for variable network topology.