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Intelligence B.Tech ICT/CSE Semester VI, Winter Semester 2018-19**

Lab 4: Feed-Forward fully connected Neural Network

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Exercise 2

1. There are total 3 layers in the given ANN - 1 input layer, 1 hidden layer and 1 output layer.
2. Number of neurons in each layer are as follows:
 - i. Input layer - 2 neurons
 - ii. Hidden layer - 2 neurons
 - iii. Output layer - 1 neuron
3. We compare the predicted results i.e., elements of 'a' matrix with the class column in desired output matrix
4. It tells us where the learning rate should stop after it encounters the error i.e., error threshold.
5. If the learning parameter is set to 500 then the ANN won't be able to achieve the perfect class for the given test point. It will keep on oscillating across the correct point.

Exercise 4:

Figure of Merit : 100 when hidden layer has 16 neuron and 400 iterations