**Coding Assignment**

Write a generalize computer code for a Multi-layer Feed forward Neural Network with Back propagation Training algorithm.

Your program should take following information from user:

1. No. of inputs
2. No. of outputs
3. No. of training patterns
4. No. of testing patterns

Read following information form a FILE

1. Read training and testing data from a file.

Your program should write in files (1) Mean square error with Number of Iterations (2) output of the network (3) error in prediction

As per your specialization, select a problem and collect data from published research article. Try to Model that problem.

**Submission:**

1. Full code
2. Submit a detailed report of the project. The report should consist of following sections:
3. Introduction (Problem definition, Background etc)
4. Methodology (how did you chose, and optimal No. Of hidden neuron, learning rate, etc.)
5. Results and Discussions (MSE, error in prediction)
6. Conclusions