1. **Mini-assignment – Artificial Neural Network (ANN)**
2. Draw and label an ANN with one input layer, one hidden layer and one output layer; the number of neurons in the input layer is 2; and number of neuron in the hidden layer is 3. The output layer will have only 1 neuron. The activation function for the hidden neuron is sigmoid function. The activation function for output layer is any linear function. The input layer neurons have no activation function.
3. List all the equations needed to calculate this ANN for both forward pass and backward pass.
4. Demonstrate the training and learning of this ANN in doing classification or function approximation task. Note: To demonstrate the working of this simple ANN, you can generate your own data points or you can also use the XOR logic to generate the data points.
5. Show all diagrams, graphs and the results of the classification task.

Submission date by end of week 4.