**Neural Networks and Applications**

**Assignment 1**

Implement (Single Layer) Perceptron model on the following problems. Do not use any library except that for simple mathematical functions. Choose transfer functions appropriately.

1. Classification of data involving linearly separable two pattern classes
2. Classification of data involving more than two classes where any pair of classes is linearly separable.
3. Download appropriate data from repository (UCI and others), and use these data for the above purpose.
4. Generate two well separated 2-dimensional normally distributed data to form two classes, and apply Perceptron on these data.