HW #4

(1) Exercise 7.8 LFD (Not Problem 7.8. Please see e-chapter on NN)
(2) Exercise 8.6 (Not Problem 8.6. Please see e-chapter on SVM)
(3) Problem 8.2 LFD (Please see e-chapter on SVM)
(4) Problem 8.13 LFD (Please see e-chapter on SVM)
(5) Please see the folder containing 1 vs 5 digit data. The data contains a training
    and test set. Create a machine learning pipeline that chooses between a linear
    model, neural network, and support vector machine model to classify 1 vs 5
    data. You can use any software to build this pipeline. Please illustrate the
    relevant steps and provide the relevant code. The performance of the three
    classifiers should be highlighted using relevant plots.