Problem Set 1

In the folder, the file setup.py is mainly responsible for creating different files for training and testing and getting rid of problematic training samples.

1. Please look at the file hw1.py.
2. Please look at the file hw1.py.
3. Please look at the file hw1.py.
4. Please refer to the running result.
5. Maximum iterations is set at 25.
6. After trying different x (20,22,24,26,28), when x = 22, the performance is the best. (x = 22 is really close to x = 26)
7. 38, the data is not linearly separable since the rate of error is too high.
8. The reason for that is because without validation set, we cannot modify some attributes such as X or N. With testing set we can get a better picture of the performance of the algorithm generally.