HW 2

Due Sep. 27

* Use the given data set.
* **Clustering** Problem

1. Set the number of codewords and stop condition.
2. Run K-means and LBG algorithms by using individual training data.
3. Choose the codewords which corresponds to each class. Then you will get 10 codebooks of 10 classes.
4. Test the data by using test data.
5. If you cannot get good results then Go to 1 and repeat procedure.

* **GMM** Problem

1. Set the number of Gaussian mixture.
2. Run GMM algorithms by using individual training data.
3. Now you have GMM model of each class.
4. Test the data by using test data.
5. If you cannot get good results then Go to 1 and repeat procedure.

* **Important Notice**

1. Print out your HW report
2. Your report should have the following information
   1. Performance of your classifier.
   2. Discussion of your results
   3. Brief description of your Matlab code (Full version is not necessary).