HW 3

Due Oct. 11

* Use the given data set.
* PCA Problem

1. Set the number of PCAs.
2. By using PCA, train the given data set by using ‘Face recognition example’.
3. Test the data by using test data.
4. If you cannot get good results then Go to 1 and repeat procedure by changing number PCAs.

* **LDA** Problem

1. Find the linear transformation matrix W by using given training data.
2. Test the data by using test data.
3. If you cannot get good results then Go to 1 and repeat procedure by changing dimension of W.

* **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).