**# Galib, Marnim  
# 1000-427-030  
# 2017-11-27  
# Assignment\_06\_03**

**Step 1 : Run this to reduce the size of the training images of the CSE 5368 class to 160X160**

python src/align/align\_dataset\_mtcnn.py datasets/class\_train datasets/class\_train\_160 --image\_size 160 --margin 32 --random\_order --gpu\_memory\_fraction 0.25

Reduced images are saved in the directory : Galib\_06/datasets/class\_train\_160

**Step 2 : Using the LFW model to generate features for the CSE 5368 students images : the trained classification model is saved as a python pickle (Galib\_06\_01.pkl)**

python src/classifier.py TRAIN datasets/class\_train\_160 models/facenet/20170512-110547/20170512-110547.pb models/Galib\_06\_01.pkl --batch\_size 1000

Python pkl is saved in the directory : Galib\_06/models

python src/classifier.py CLASSIFY datasets/class\_train\_160 models/facenet/20170512-110547/20170512-110547.pb models/marnim\_classifier.pkl --batch\_size 1000

S**tep 3 : Take Test image from webcam using the following command :**

python src/Galib\_06\_01.py

**Step 4 : Align the original test images in a 160X160 image**

python src/align/align\_dataset\_mtcnn160.py datasets/test\_images datasets/test\_resize --image\_size 160 --margin 32 --random\_order --gpu\_memory\_fraction 0.25

**Step 5 : Draw a 160X160 box around the face of the original test images**

python src/align/align\_dataset\_mtcnn.py datasets/test\_images datasets/test\_images\_boxed --image\_size 160 --margin 32 --random\_order --gpu\_memory\_fraction 0.25

**Step 6 : Finally, show the test images side by side with the matching face from the training set.**

python src/Galib\_06\_02.py CLASSIFY datasets/test\_resize models/facenet/20170512-110547/20170512-110547.pb models/Galib\_06\_02.pkl --batch\_size 1000