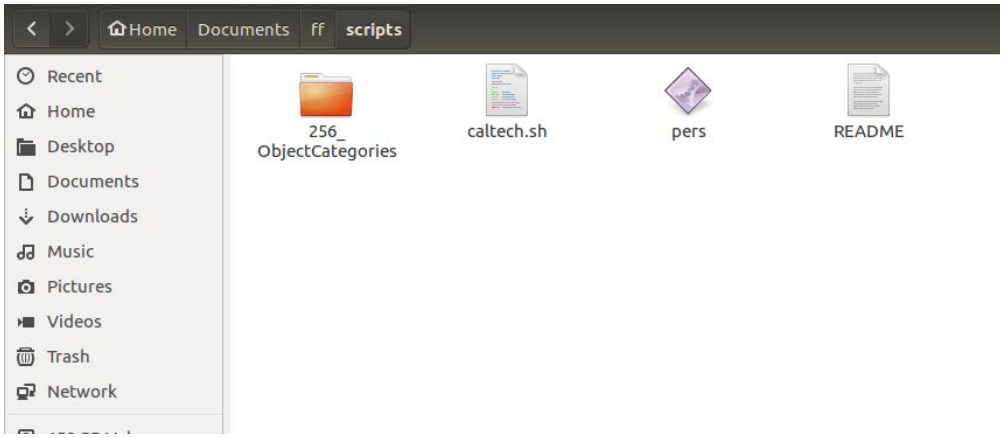
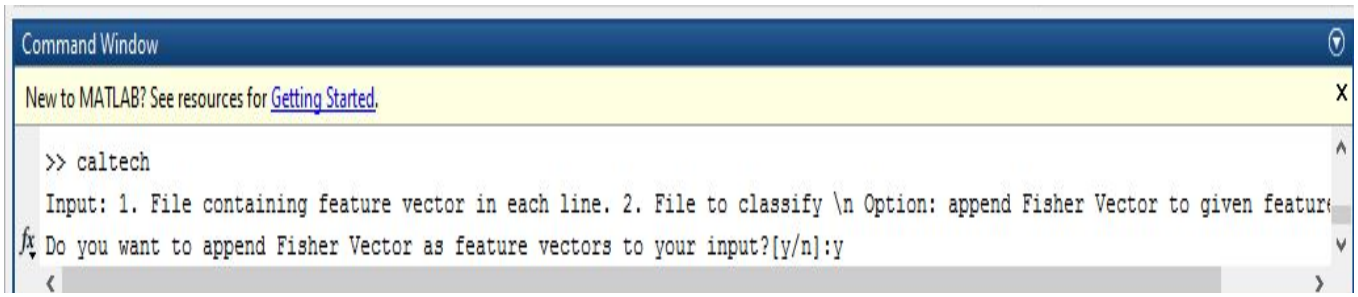
This read-me shows how to classify the images in the Caltech-256 dataset.

1. Download the Caltech-256 Dataset
   http://www.vision.caltech.edu/Image_Datasets/Caltech256/
2. Put it in the same folder as scripts together with the binary of the software 'pers'.



3. Run the ./caltech.sh
4. The script generates a csv file stat.csv containing the topological feature and labels of all images in the dataset
5. Run matlab script 'caltech.m' to classify images.
6. Input the stat.csv generated in step 4 when asked for the file containing feature vector. **If you want to append your own feature vector, you should add it to stat.csv**
7. The last row of the csv file will be treated as the test file you want to classify
8. Classify images using the following option:
   a. If you want to append Fisher Vector along with the feature vector in the csv file, you need to install the VLFEAT library in matlab.
      http://www.vlfeat.org/install-matlab.html
   b. Once VLFEAT is installed, run the script and type 'y' when asked:



   c. Input the image folder containing the Caltech-256 images. The last image will be taken as the test image
9. The program classifies images based on the features supplied in the csv file (and fisher vector if you supply the input image folder). Note the last image in the last folder will be treated as the test image, same for the feature vector: the last row of the csv is the test image for the program