Assignment #2

More than the assignment, clearing the installation errors and Mxnet is the tough part. :)

Most of my code is from the predict file in the `how_to` folder. Just for the final fully convoluted layer, I used the `sklearn's SVM` for predictions.

Imagenet has a lot of images and finding something which was not present in it was tough. So, I just chose footwear as we can find them a lot in hostels.

I took images of slippers, sandals and shoes. I trained the model with about 30 images. Some of the trained examples had a bunch of shoes in a picture and the test set had some tough ones like mismatching shoes, only on the sandals in a picture, reversed sandals. For negative examples, I just chose random images of cars/pets etc.

```
import glob
positive_files = glob.glob("positive1/*")   //Positives examples
negative_files = glob.glob("negative/*")    //Negative examples
test_files = glob.glob("test1/*")           //Testing
```

The results : They were amazing. Every images with sandals got correctly classified marked as 1 and all the other ones are marked as 0. One interesting thing, in the training examples, I took a image of my feet wearing sandals and in the test set I had a pic of just my feet. It perfectly marked the image of my feet as 0.

I tried a bunch of other stuff also with Imagenet. It got most of them right, but it said a pic of Donald Trump as a minister of UK and also got some animated stuff also wrong.