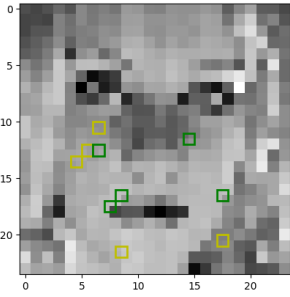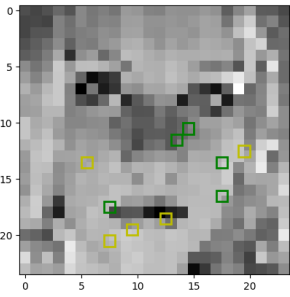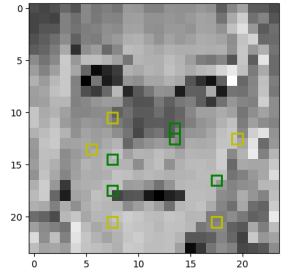Homework 1
Machine Learning CS453X
03/18/2019
Ying Zhang & Yujia Qiu
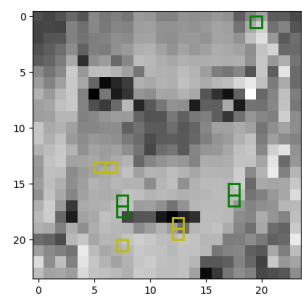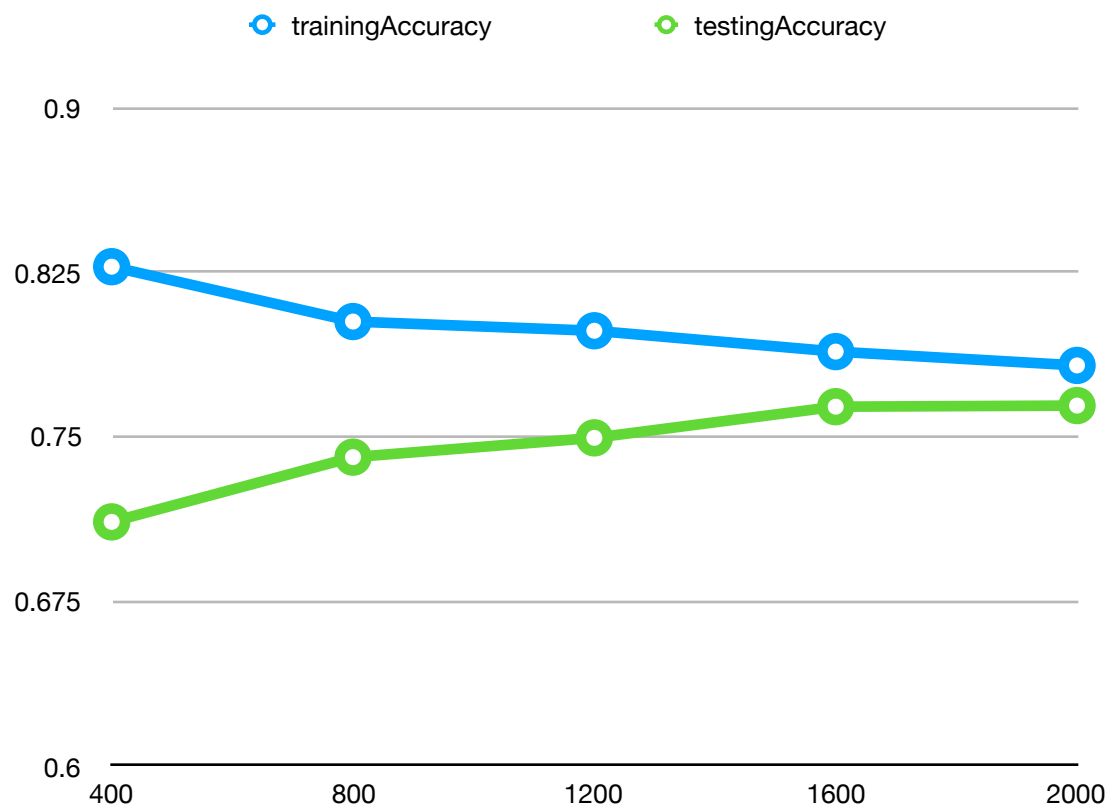
How to run:
-> python3 homework1_yzhang23_yqiu.py
-> python3 homework1_smile_yzhang23_yqiu.py

Result: (took about 3 hours)

N	trainingAccuracy	testingAccuracy	Visualization:
400	0.8275	0.7111597374179431	
800	0.8025	0.7407002188183808	
1200	0.7983333333333333	0.749452954048148	

N	trainingAccuracy	testingAccuracy	Visualization:
1600	0.78875	0.7636761487964989	
2000	0.7825	0.7642231947483589	

○ trainingAccuracy   ○ testingAccuracy

Overall the testing accuracy is lower than training accuracy, but they are getting closer as the N increases.