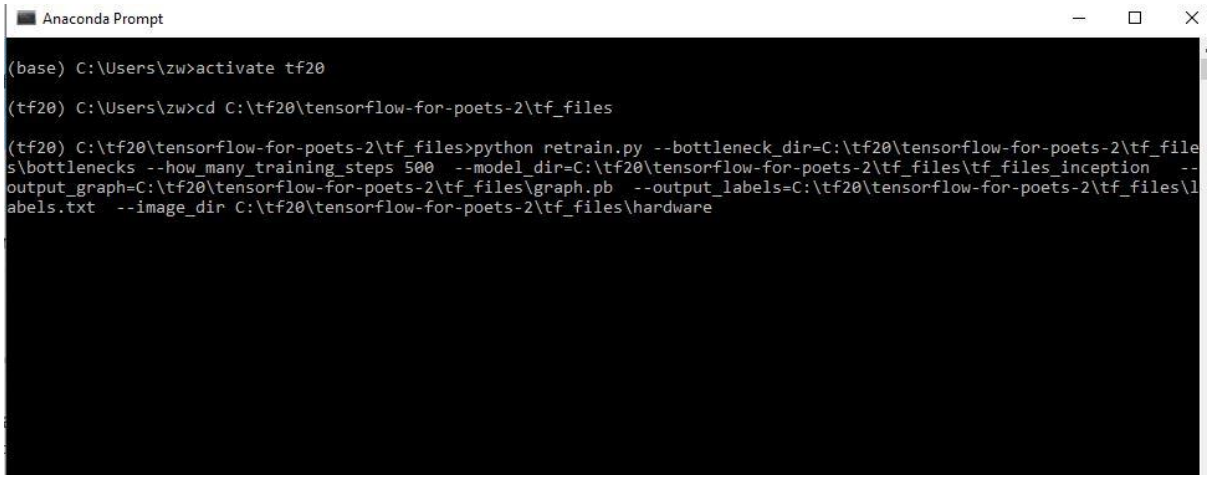
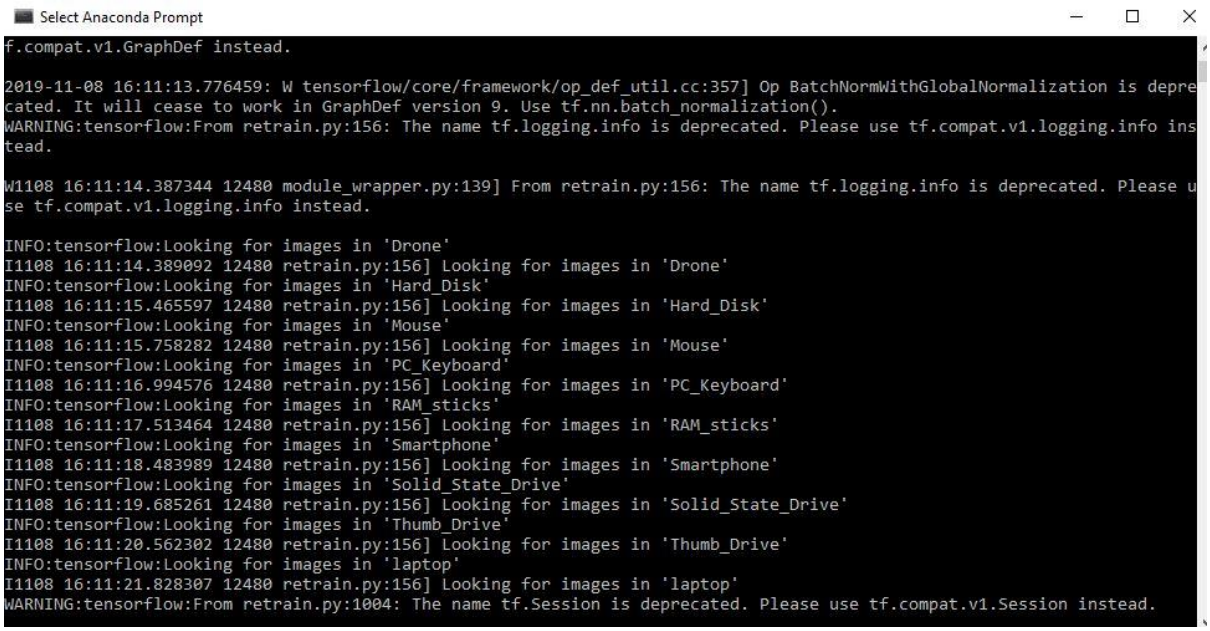
Training Manual:

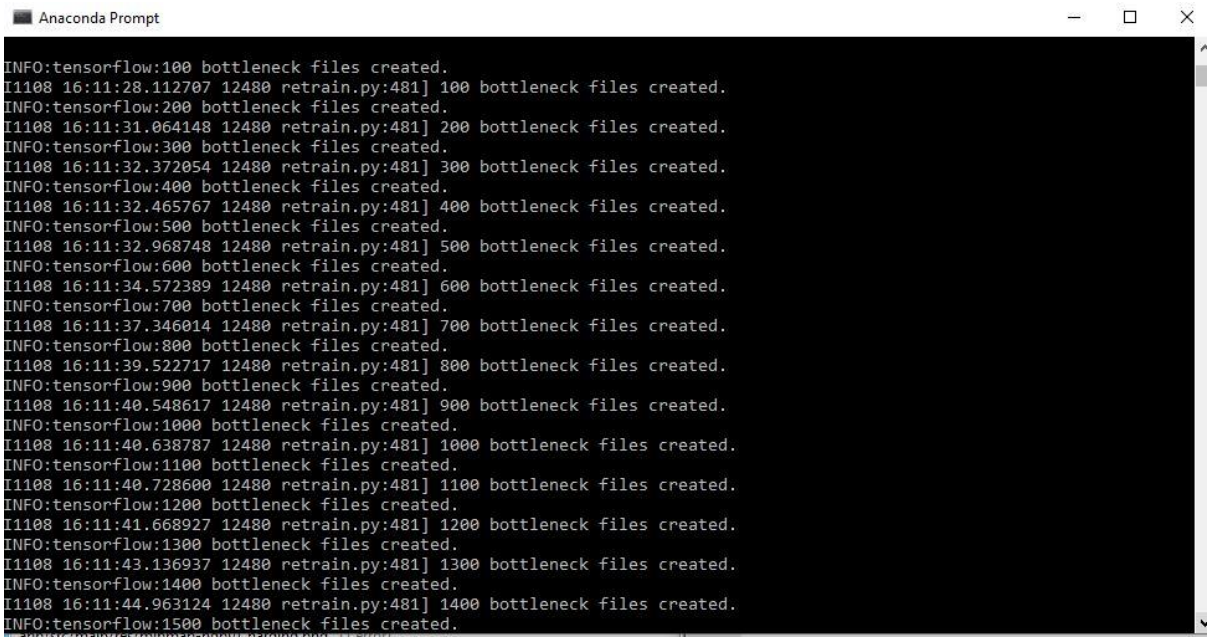
How to train Tensorflow (briefly)



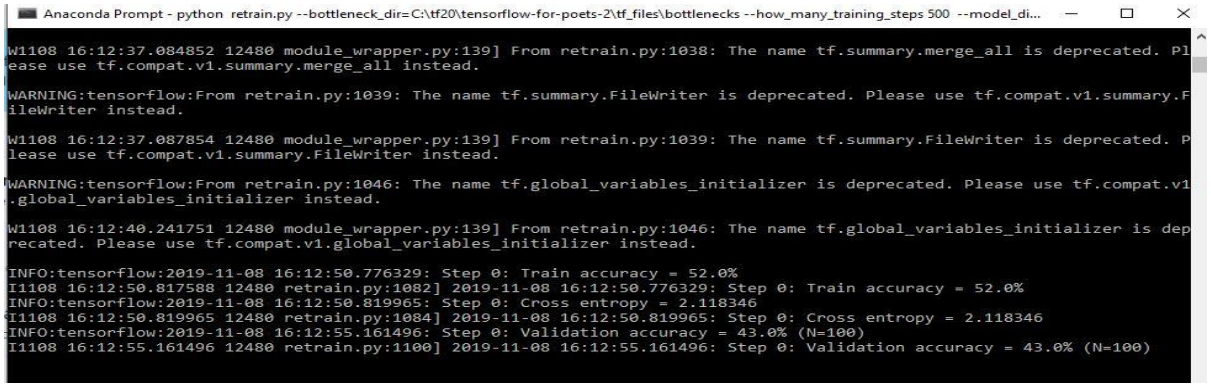
- Key in activate tf20 to run tensorflow.
- Change directory to the retrain.py folder and key in the following command to run tensorflow training script.

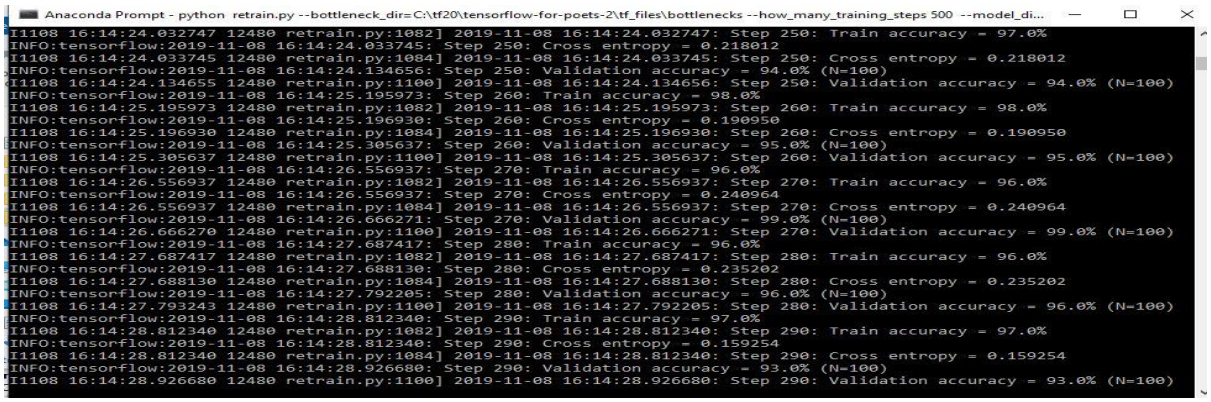


- After running the python script, the program will look for images in the objects folder to train.

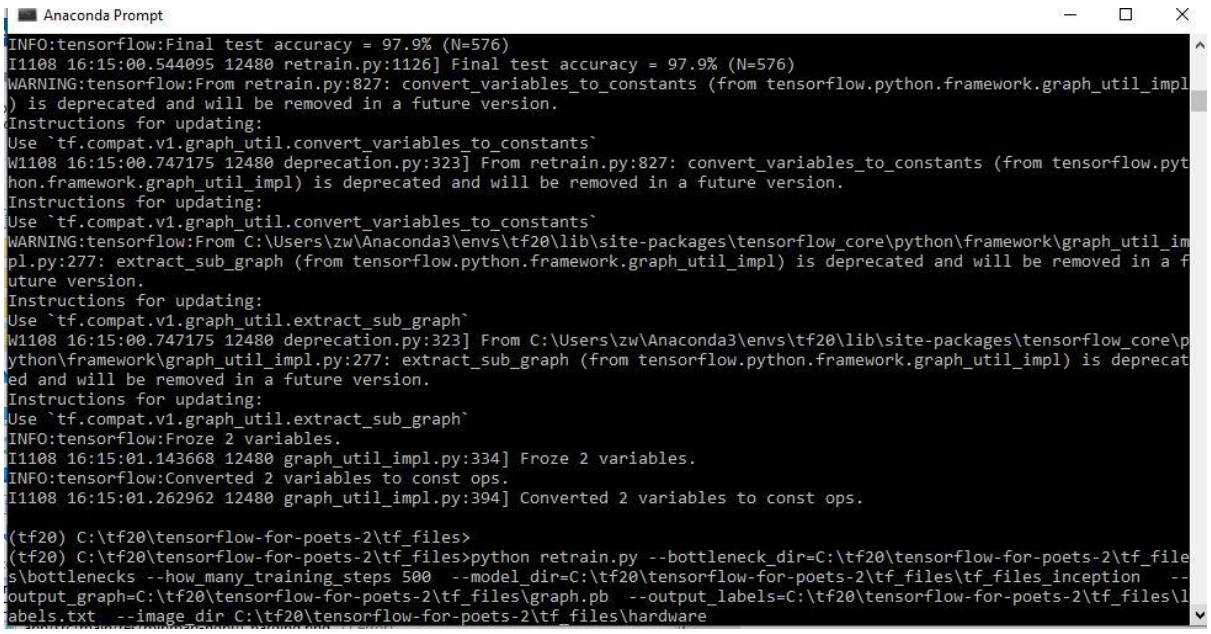


- Bottleneck also known as layer files are created.
- This will take about 30 minutes or more to complete.
- Every image is reused multiple times during training.



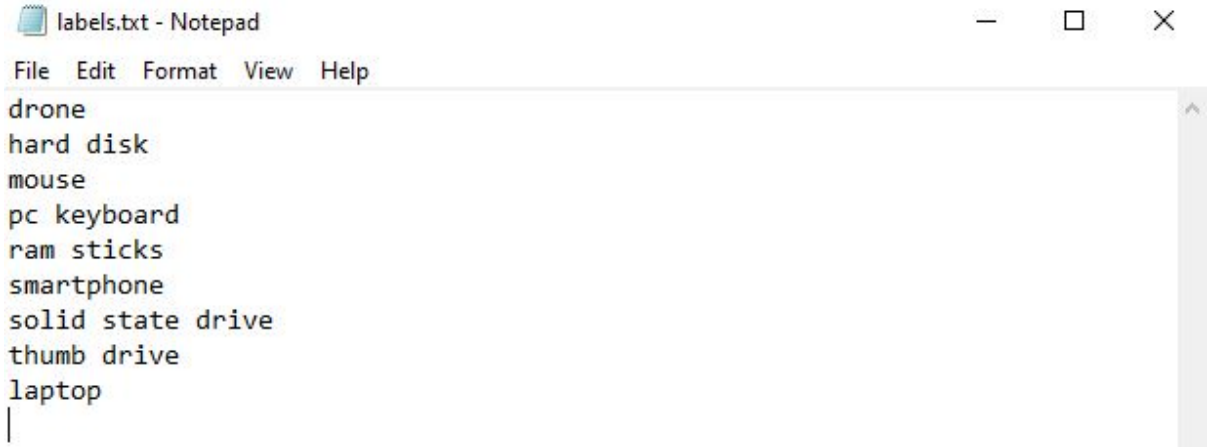


- Bottlenecks created previously will be loaded, once complete, the actual training begins.
- During the training, you will see a series of step outputs, displaying the training accuracy.
- New bottlenecks will be created after a group of images are trained.
- The more steps the program takes, the more accurate it is.

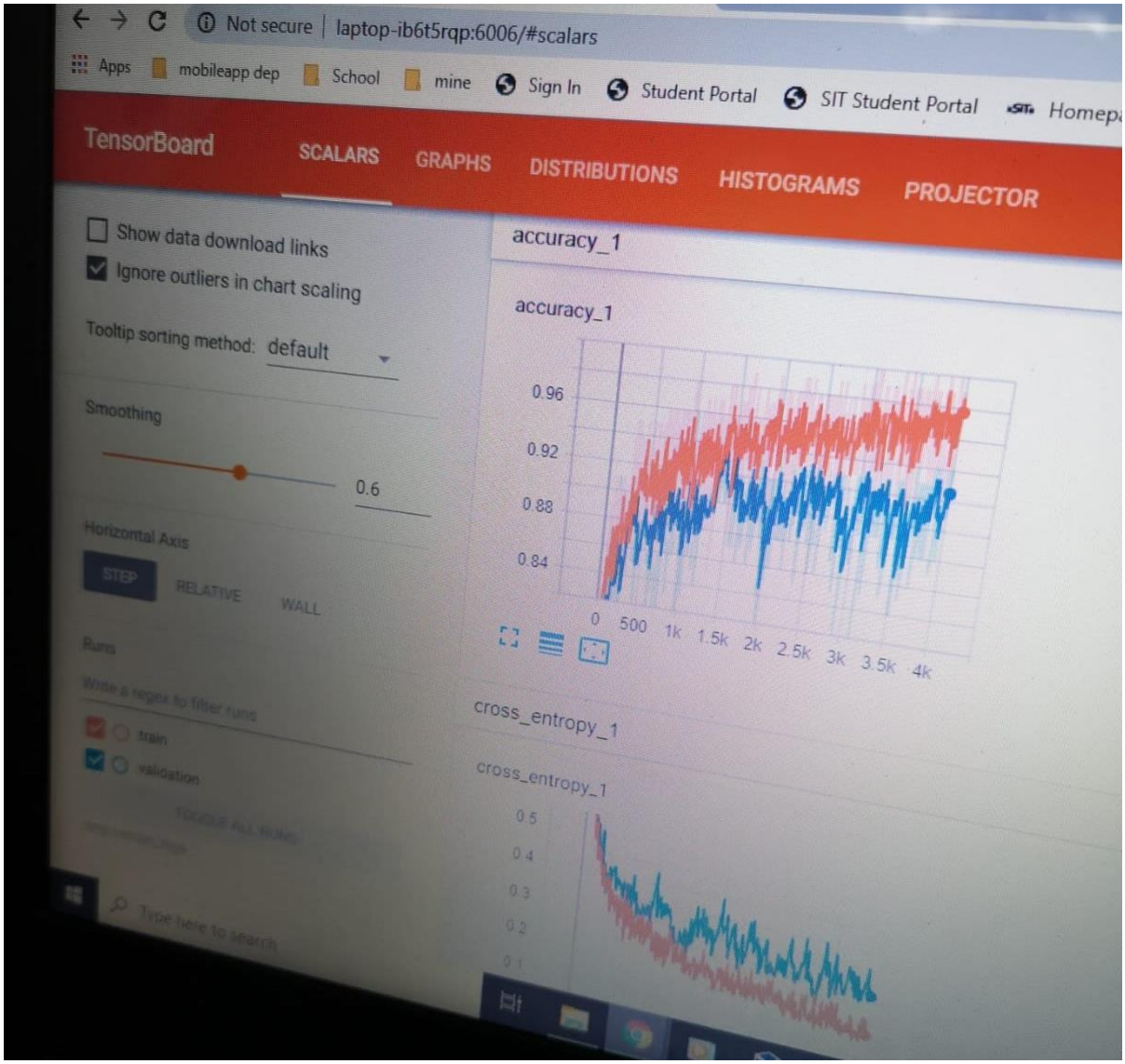


- The program is successfully trained and can be used for testing and conversion (e.g. pb to tflite or lite).

- Files derived from the training which is used to retrain and deploy in android later.



- The name of objects generated from the above training which is derived from the object folder name we have inputted at the beginning.



- The analysis of the training can be viewed by launching the Tensorboard.
- The graph shows that the rate of accuracy increases after each training steps and iteration over the time.