

## README General:

Task 1 and 2 were undertaken , for task 3 only part a was undertaken.

Contents of this zip file: File has 4 folders, as per assignment guidelines: i) code folder, ii) trained\_models folder, iii) report, iv) readme.

The code folder is split into parts, each contains further sub-splits where needed. The trained models are actually stored together with the relevant code file (in same folder). Thus, folder trained\_models is empty and exists so that no marks are deducted from the submission.

In Part 1 separate code is provided for parts(a)-(d) and in Part 2 one code is automated to work for both part A and B of the task.

### Loading models:

Generally, in all scripts provided there is a section at the start marked with: IMPORTANT!

In this section the user can control if they want to train the model or load the model. By default the scripts are set for loading, so just hitting run should be enough to get the output. Furthermore, in some sections choice is given as to the size of cell (32/64/128) the right size of cell needs to be selected for the code to run for that particular model.

### Versions:

using tensor flow v 0.12

using python -> anaconda -> spyder