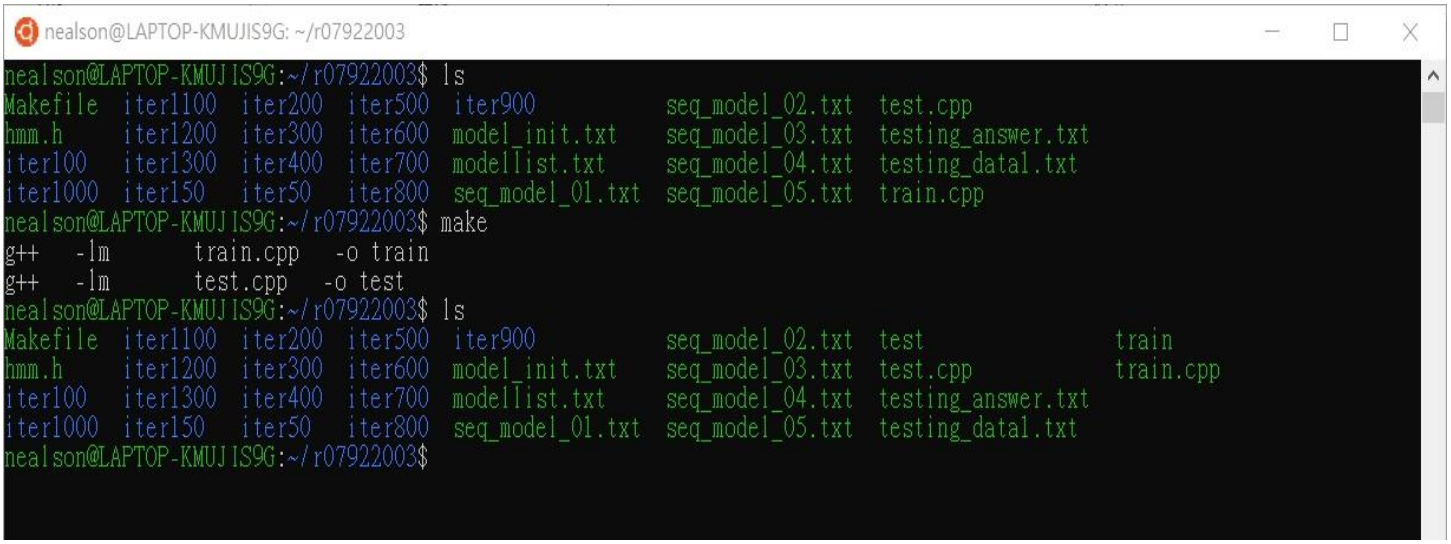
# DSP HW1 資工碩一 r07922003 劉濬慶

本次作業用 c 寫的

## 1. 執行環境: Win10 內建下的虛擬 ubuntu bash




## 2. 執行步驟

Step1: ubuntu commend line 打 make 會自動編譯 test.cpp and train.cpp

Step2: ubuntu commend line :

./train iteration model_init.txt seq_model_01.txt model_01.txt

./train iteration model_init.txt seq_model_02.txt model_02.txt

./train iteration model_init.txt seq_model_03.txt model_03.txt

./train iteration model_init.txt seq_model_04.txt model_04.txt

./train iteration model_init.txt seq_model_05.txt model_05.txt

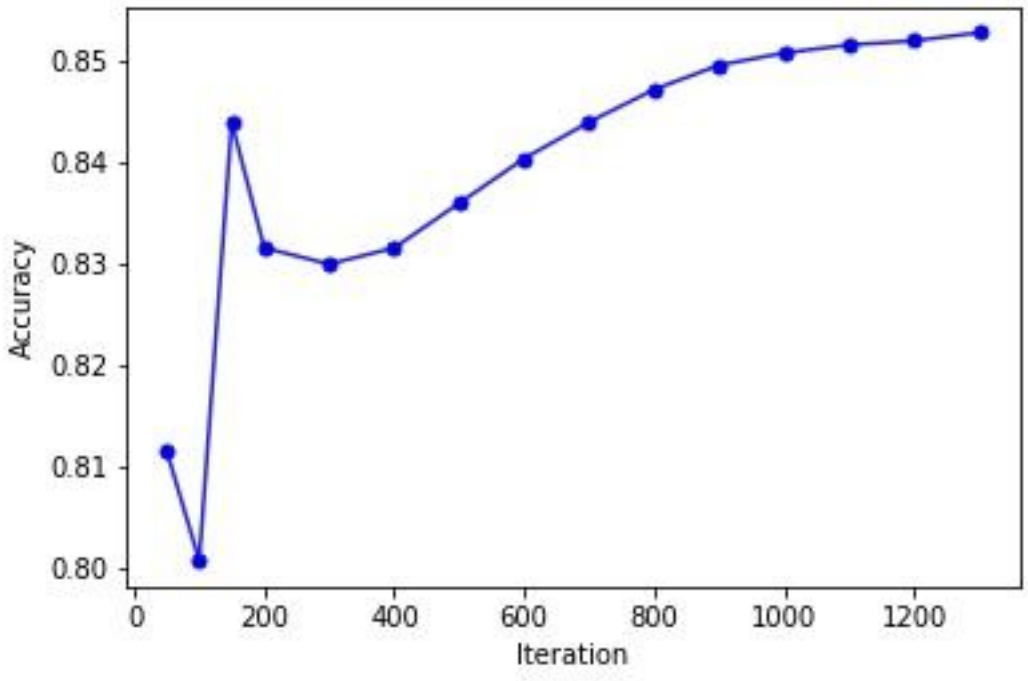
Step3: ubuntu commend line:

./test modellist.txt testing_data1.txt result1.txt

./test modellist.txt testing_data2.txt result2.txt

分別會產出 result1.txt & result2.txt

3. 執行結果




| Iteration | 50 | 100 | 150 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|---|
| Accuracy | 0.8116 | 0.8008 | 0.8440 | 0.8316 | 0.8300 | 0.8316 | 0.8360 |
| Iteration | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |
| Accuracy | 0.8404 | 0.8440 | 0.8472 | 0.8496 | 0.8508 | 0.8516 | 0.8520 |
| Iteration | 1300 | | | | | | |
| Accuracy | 0.8528 | | | | | | |

由於 Iteration 1300 時 Accuracy 最高故選 1300 的 model 來 predict test2