

# DSP HW1

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## Analyze

1. 實測觀察後發現，在training的過程中，參數會逐漸朝向某個方向收斂，並且使得accuracy逐漸提升
2. 我在test1的accuracy最終大約為87%，可推知model訓練的結果應該算還不錯

## Execution

- Environment: macOS
- Makefile

```
# enter my folder
cd hw1_b05901011
# compile train/test
make
# clean folder
make clean
```

- Train

```
./train 1000 ../model_init.txt ../seq_model_01.txt ./model_01.txt
./train 1000 ../model_init.txt ../seq_model_02.txt ./model_02.txt
./train 1000 ../model_init.txt ../seq_model_03.txt ./model_03.txt
./train 1000 ../model_init.txt ../seq_model_04.txt ./model_04.txt
./train 1000 ../model_init.txt ../seq_model_05.txt ./model_05.txt
```

- Test

```
./test ../modellist.txt ../testing_data1.txt ../result1.txt
./test ../modellist.txt ../testing_data2.txt ../result2.txt
```