Assignment #1 115053514 通訊二 薛卉萱

1. 編譯結果

```
    chance@chance-ASUS-TUF-Gaming-A15-FA506QR-FA506QR:~/datastructure_hwl.1$ cd src
    chance@chance-ASUS-TUF-Gaming-A15-FA506QR-FA506QR:~/datastructure_hwl.1/src$ gcc main.c layer.c neuron.c -o main -lm
    chance@chance-ASUS-TUF-Gaming-A15-FA506QR-FA506QR:~/datastructure_hwl.1/src$ ./main[
```

2. 執行結果

```
Enter the number of Layers in Neural Network:
4
Enter number of neurons in layer[1]:
2
Enter number of neurons in layer[2]:
4
Enter number of neurons in layer[3]:
4
Enter number of neurons in layer[4]:
1

Created Layer: 1
Number of Neurons in Layer 1:
Number of Neurons in Layer 1:
Number of Neurons in Layer 1:
Number of Neurons in Layer 2:
Number of Neuron 1:
Number of Neurons in Layer 3:
Number of Neurons in Layer 4:
Neuron 1 in Layer 4 created
```

```
Enter the number of training examples:

4

Enter the Inputs for training example[0]:
0 0

Enter the Inputs for training example[1]:
0 1

Enter the Inputs for training example[2]:
1 0

Enter the Inputs for training example[3]:
1 1

Enter the Desired Outputs (Labels) for training example[0]:
0

Enter the Desired Outputs (Labels) for training example[1]:
1

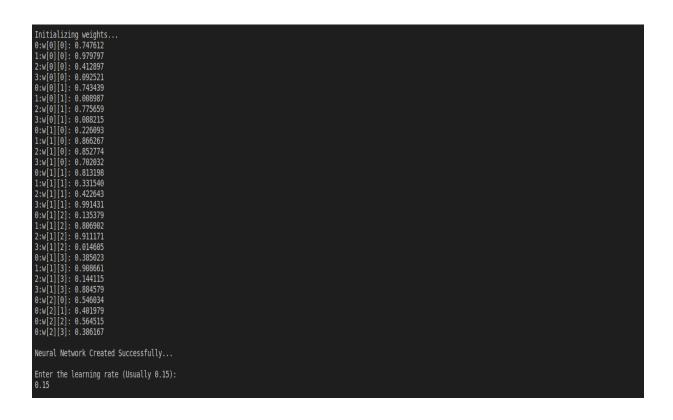
Enter the Desired Outputs (Labels) for training example[2]:
1

Enter the Desired Outputs (Labels) for training example[2]:
1

Enter the Desired Outputs (Labels) for training example[3]:
0

Enter the Desired Outputs (Labels) for training example[3]:
0

Enter the Desired Outputs (Labels) for training example[3]:
```



3. 分析 LOSS 的數據分析在 DATA(EXCEL)中,由作圖可顯示 ERROR 越來越小,最後趨向 0。

