CENG5030 Lab 02

Training Strategies

1 Sample Code:

- Go to the ./Lab02-code/residual_network/
- Run python main.py in your terminal
- You can change many places in the code to tune the network performance
 - Hyper-parameters
 - Structure of neural network
 - Loss function and optimizer

2 Assignments:

- Q1 Change the parameters mentioned in main.py to get a high accuracy of your new model and write down your configuration
- **Q2** Build and train a RNN model from scratch
 - Dataset: MNIST
 - Network: Recurrent Neural Network (many-to-one)
 - Sequence_Length: 28Hidden_Size: 128Num_Layers: 2
 - Test your model (RNN) and get the accuracy on test dataset

Useful Materials:

- MNIST Dataset
- Recurrent Neural Networks cheatsheet
- PyTorch Tutorial: RNN

Tips: You should learn the code style from the sample code to build your project.