

## Instruction

1. using command line to enter directory /TeamP1/src
2. In start.py, you can set the parameters
  - a. "import mnist\_loader" is importing mist\_loader module
  - b. "training\_data, validation\_data, test\_data = mnist\_loader.load\_data\_wrapper()" will get the training, validation and test data.
  - c. "import network" is importing network module
  - d. "net = network.Network([784, 30, 10])" is set input layer, hidden layer and output layer, you can modify the number of neurons in hidden layer which default value is 30.
  - e. "net.SGD(training\_data, 300, 500, 3.0, validation\_data=validation\_data, test\_data=test\_data)" is starting to train. 300 is number of epoch, 500 is batch size, 3.0 is learning rate. You can modify these parameters.
3. Using command "python start.py" to run the program.
4. The result will display in the terminal.