Folder introduction:

**Image** is two set of pictures— number pic and smiling face pic, which can be read and showdirectly by python

**Result** is sets of result of deep leaning network picture

**N\_result** is also sets of DL results but it is the result with artificial noise

Program introduction:

**ittle\_exm.py** is the main program where you can adjust the network parameters

**model\_train\_construct.py** & **transformer\_badge.py** the main functions of transformer network, do not need to change, watch some introduction of transformer in YouTube may help to understand

**copy\_from\_past.py** the functions about data process and so on which need to be change according to the ability you want to achieve

**n\_little\_exm.py** a test program to test the noisy network, ignore it.