Installation

- Require packages
  1. Anaconda python 3.6
- How to run
  use command python main.py under the path ./HW3 with terminal, or any other compiler open ./HW3/main.py just like Jupyter Notebook, pycharm and run it.
  After running the code **accuracy curve**, **loss curve** and **decision region** will plot and save at path : ./HW3/

How to use

For convenient to use, I let the neural network construct by neurons automatically, in **main.py** line:29, 30 we can define our neurons with custom number of hidden layer just like neurons = [256, 64, 32, …] (number of hidden layer 1, 2, 3, … 's neurons) and hidden_activation = 'sigmoid' or 'relu' and whether to load weight or save weight load_weight = True or False, save_weight = True or False

main.py line:24
shuffle = True or False : whether to shuffle the data

others

I have save the best performance weight. If you want to try this weight you should use the following setting
EPOCHS = 3
neurons = [256]
hidden_activation = 'sigmoid'
load_weight = True