# Homework1. Python Implementation of Simple Feedforward NN

Submit Assignment

**Due** Thursday by 11:59pm **Points** 3 **Submitting** a file upload **File Types** zip
**Available** Feb 12 at 12am - Feb 25 at 11:59pm 14 days

Given the following data set with class C1: (0.3, 0.457), (1.1, 2.37), (4.57, 5.55), and class C2: (0.5, 0.34), (1.45, 1.11), (4.78, 4.44),

(1) build a NN with one input layer, one hidden layer, and one output layer, as 2-2-1 feed forward architecture, by drawing the NN architecture block diagram;

(2) use the python code to train the NN and plot the loss function;

(3) test your train the NN with the input data (3.32, 3.01), find which class does it belong to.

What to submit: The zip file which include the following:

(1) The python code;

(2) readme file for running this code for testing and verification purpose.

(3) screen capture of the program execution result.