Deep Learning Experiment

- Write a *basic* deep learning program
  - Train a deep learning model.
  - Predict/classify the test data by this deep learning model.
  - Find out the meaning of Accuracy, Precision, Recall, and AUC, and provide the results in this experiments

- Dataset: “Iris” (or “Adult”, which may be slower in running)
  - You can also use other datasets, and make some observations for the results.

- Programming Language is not limited.

Hint

- You can use the popular libraries: “Pytorch”, “Tensorflow”, “Keras”.

- You can also read the below blog posts:
  - https://machinelearningmastery.com/pytorch-tutorial-develop-deep-learning-models/
  - https://medium.com/datadriveninvestor/building-neural-network-using-keras-for-classification-3a3656c726c1
  - https://machinelearningmastery.com/tutorial-first-neural-network-python-keras/

Upload the result to Moodle

- Upload your code and a very simple report (at least, recording the results: Accuracy, Precision, Recall, and AUC) to Moodle.
  - Zipped to a file. The file name should be “Student ID_Program.zip”