CSC790: Deep Learning
Fall 2020, Exam #02
Date Assigned: Friday, October 23, 2020
Due Date: Sunday, October 25, 2020 at 11:59 pm (on blackboard) (100 points)

Download the file Exam02_data.zip from blackboard.

Problem 01(50 points)
For this problem use the data in the folder problem01. The folder contains two files p1_train.csv, and p1_test.csv. The last field in each file is the label(there are three classes).

1. Using keras/tensorflow, design and implement a neural network to classify the instances in this dataset.
2. Plot the graph epochs vs. accuracy.
3. For full credit, make sure:
    - Your neural network is minimal(few extra layers or extra neurons is acceptable but not too many).
    - The number of epochs should not exceed 200.
    - Your accuracy is at least 95%

Problem 02(50 points)
For this problem use the data in the folder problem02. The folder contains two files p2_train.csv, and p2_test.csv. The last field in each file is the label(there are two classes)

1. Using keras/tensorflow, design and implement a neural network to classify the instances in this dataset.
2. Plot the graph epochs vs. accuracy.
3. For full credit, make sure:
    - Your neural network is minimal(few extra layers or extra neurons is acceptable but not too many).
    - The number of epochs should not exceed 200.
    - Your accuracy is at least 95%

Submission

1. Make sure you write you name on all files you submit.
2. Your python code for each problem. Document your code and clearly specify how to run your code.
3. You should turn in all your files by enclosing them in a folder maned **Exam03_yourlastname.zip**.