Artificial Intelligence Lab Final, Spring 2018
Date: 4/4/2018
Total Marks – 25
Total Time – 1 Hour 15 Minutes

The given dataset contains 5 columns, the last column being the class name (Left / Right / Balanced), and the first 4 being numeric features.

1. Import the dataset into your python program using Pandas DataFrame. [2]

2. Split the dataset RANDOMLY into two portions – Training Data (575 Data), Test (50 Data). For this purpose, use the train_test_split() function which you used in your lab. Use the following code segment - [3]

   ```
   from sklearn.model_selection import train_test_split()
   X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.08, random_state=42)
   ```

3. Predict all the class labels of each data point from the Test Set. [10]

4. Find the accuracy of your model. [5]

   To find the accuracy -
   Suppose, original_y = [1,0,1,1] and predicted_y = [1,0,0,1] So, there are 3 matches among the 4 values. So accuracy ¾ = 0.75 = 75%.