Digital Signal Processing Laboratory
Lab 3 Exercises

1. 30 data sets of subjects are located in 30 different folders, respectively. Each set of data is composed of items, "name", "age", "gender", "height", "weight", "predata", and "postdata". Please write a MATLAB program to complete the following tasks.

   (a) Load all the data in the folders.

   (b) Count the numbers of male and female subjects.

   (c) Find the mean and standard deviation of age, height, and weight of both male and female groups.

   (d) Save the data of male and female groups into two files "Male.mat" and "Female.mat", respectively.

   [Hint: data sets can be downloaded from the moodle learning system.]

報告繳交注意事項：

1. 報告中請標示學號與姓名。

2. 撰寫報告方式：(1)使用 MATLAB Live Script 撰寫程式，須執行結果，並輸出成 pdf 檔，上傳至 moodle 系統。(2)使用 m 檔撰寫程式，請將程式碼與執行結果截圖，複製貼上於 word 中，並轉成 pdf 檔案，上傳至 moodle 系統。

3. 評分標準：

   (1)實驗課當天(TUE)繳交：80±10 分

   (2)遲 1 天(WED)繳交遲交：70±10 分

   (3)遲 2 天(THU)繳交遲交：60±10 分

   (4)遲 3~6 天(FRI~MON)繳交遲交：50±10 分 [以 23:55 作為日期劃分時間點]

   (5)有繳交報告，但未轉成 pdf 檔上傳者，一律給 60 分。