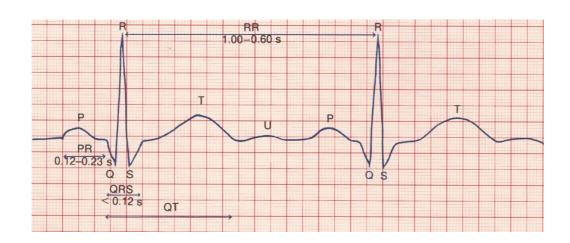
Digital Signal Processing Laboratory Lab 7 Exercises

- 1. Please load a default electrocardiogram (ECG) signal, wecg, in MATLAB (the size of "wecg" is 2048×1). The sampling frequency, f_s , of this ECG signal is 180 Hz. You can calculate the sampling time interval by $1/f_s$. Please write a MATLAB program to complete the following tasks.
 - (a) Plot this ECG signal.
 - (b) Find the locations of R peaks in the ECG signal that are greater than or equal to one, and then plot symbols on these peaks, which are superimposed on the original ECG signal.
 - (c) Calculate RR intervals between two adjacent R peaks, and then plot the RR interval figure.



報告繳交注意事項:

- 1. 報告中請標示學號與姓名,並將檔名改為學號 姓名(ex. B11102200 陳XX)。
- 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:85±10 分
 - (2)遲1天(WED)繳交遲交:75±10分
 - (3)遲2天(THU)繳交遲交:65±10分
 - (4)其他時間繳交者:0分
 - (5)有繳交報告,但未轉成 pdf 檔上傳者,一律給 0分。