**MAP 523/DPS 923**

**Lab One**

For this lab, you are requested to develop a timer app. Once the app is launched, the user is expected to enter an integer to set up the minutes for the countdown. If the entered integer is less than one or more than 60, the user should be warned with a message “The number must be between 1 and 60”.

Once the minute is set up, the user may click the start button in which case, the timer starts to count down as: “MM:SS”. The user should be able to pause/start/reset the timer when required.

**GUI:** The design of the GUI is up to you, however, you are expected to apply layout techniques that we discussed in class such that the layout looks like the same on all devices running iOS.

The common elements on the GUI are:

* A label to display the count down.
* Buttons for: set, start, pause and reset the countdown.
* Text-field to enter the minutes for count down.