What I done by the end of this lab:

* I shared with the other members what I did for the last week [from last lab to this lab]?
  1. Reviewing the android app requirements
  2. Sharing the information about how LCD can interface with the Pi
* Plan for the code review lab
  1. Subdivide my code for the temperature sensor and the leds in order to be able to have some method testing
  2. Find a way to do the hardware test [something cold, hot to show how the temperature sensor reading and leds related cases
* Have a specific a methodology to achieve the temperature test goal

Background:

* The temperature sensor code will be subdivided into three functions
  1. FunctionA that will read and report the temperature every three seconds
  2. FunctionB that will receive the temperature reading and work accordingly
     1. Green Led for Temperature Range from 20 to 27
     2. Red Led for Temperature Range from 27 to 40
     3. Flashing the leds[switching between green and red] for three times each if the Temperature is equal for 40 or above or 10 or less
  3. FunctionC that will set up the GPIO [suggested test is to turn on each led for one second after setting up the GPIO related port to show it’s working]
* Two hardware cases to show how the temperature sensor reacting to the real surrounded environment [suggested test is to bring something cold , hot or/and touching the sensor to raise the temperature.

Temperature testing methodology:

|  |  |  |
| --- | --- | --- |
| Test | Passed Information/  Action preformed | Expected result |
| FunctionB | T=40 | Flashing Leds |
| FunctionB | T=25 | Green Led |
| FunctionC | Nothing | Turn on The Green led then The red Led for 1 second each |
| Hardware Case one | Place a cold object on the sensor | Decreasing the temperature sensor reading |
| Hardware Case Two | Place a hot object on the sensor | Increasing the temperature sensor reading |