This lab was challenging to say the least. Given that it may be compounding problems at this point int time. I was unable to get the temperature sensor to display upon the led screen. This probably from my screen turning on, able to adjust the contrast, but the connections on the breadboard are not lining up correctly due to a difference in the model I have and the displayed in the instructions.

The exercises have been interesting, nonetheless. I connected the sensor via the QWIIC interface and confirmed the LCD was properly wired. However, I immediately encountered communication issues where the sensor failed to initialize. After verifying connections, I used i2cdetect to confirm the sensor's I²C address, which revealed a wiring error in the QWIIC cable. Reseating the connection did not resolve this issue, so I feel it might be placement along the t-board and it’s different numerical numbering not aligning.

The python script in my folder also seemed to hand when I executed, so I recopied the folders overs using SSH. Didn’t think it would correct the issue, but troubleshooting all steps to have for a change. I then ran sudo halt, waited for the pi to shutdown, then killed power, checking the wires in the process. Some had been slightly dislodged, so I tried to straighten them back up and not lean as much.

Rebooting the system, I ran the previous weeks modules to test each part, the fading light came up, and the blue was also working, but my button still remained unresponsive to being pressed. It did register on the screen once in the ubuntu linux distro, stating button was pressed, but it does not change the state upon multiple presses. Also, stopping the python code, then restarting it, the button no longer triggers the message on the screen. Another issue to troubleshoot. Was going to spend this week reworking from module one and setting up the breadboard again, since it fell & multiple wires were disconnected, or bend on the resistors. I know that I am close to overcoming this, I’m just a bit slower behind than I would like to be at this point.