AHT10_BLINK

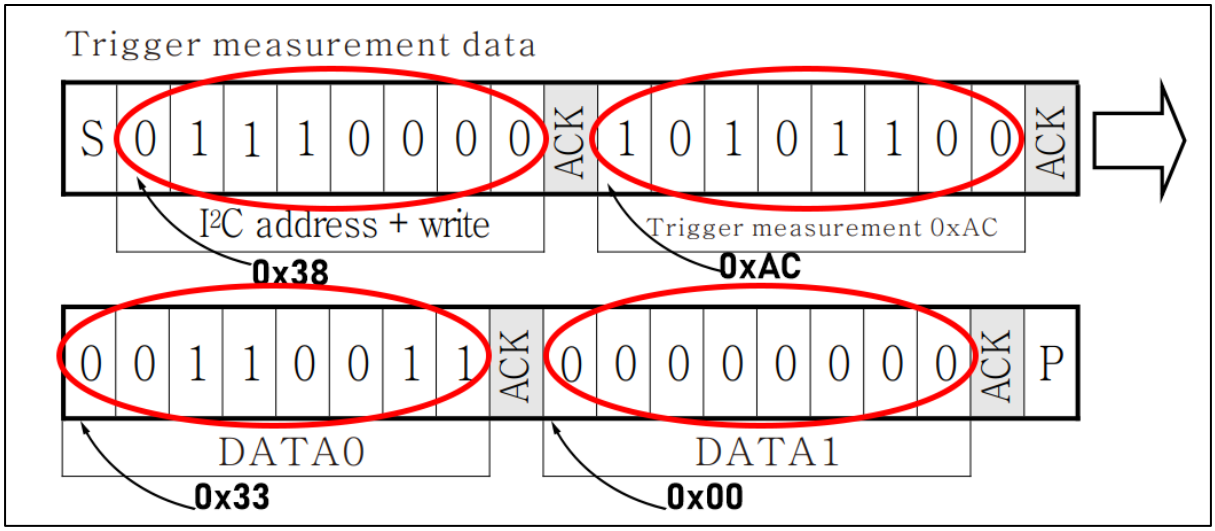
In this demo, I have used AHT 10 to find out the temperature and relative humidity of our surroundings.

I have used I2C protocol to communicate with the AHT10 sensor and UART to print in my computer.

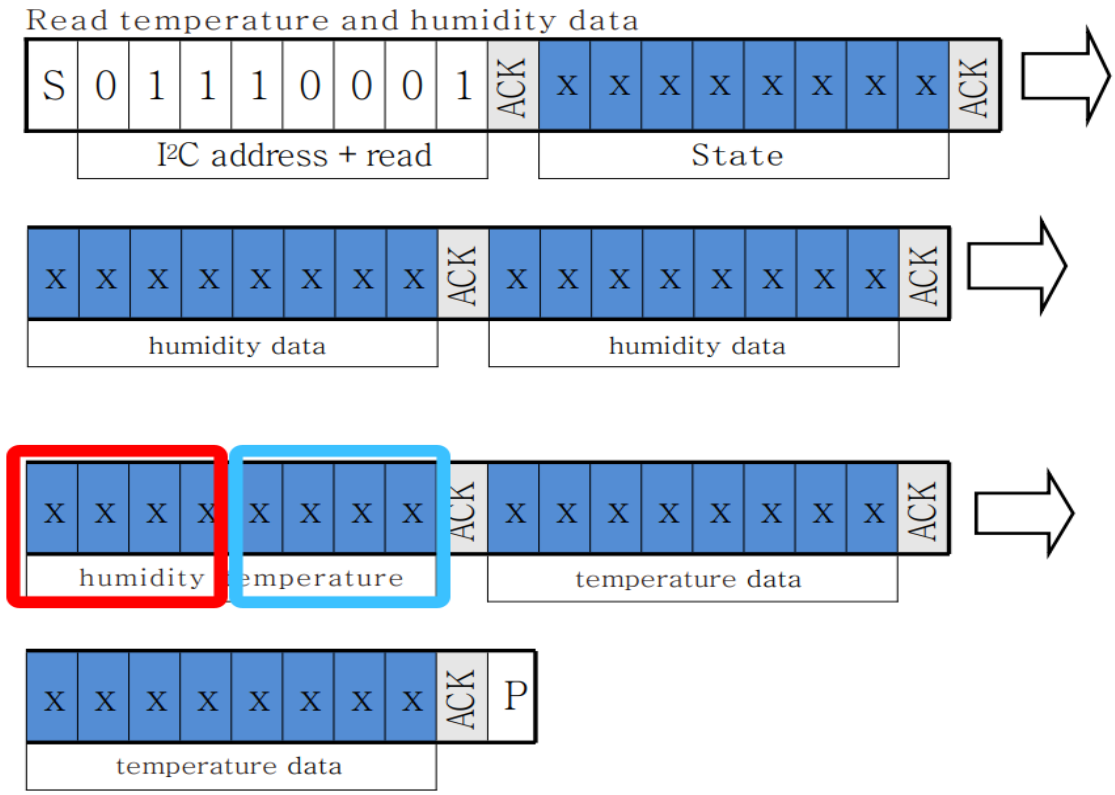
According to the datasheet-

After transmit is started,the I²C first byte of the transmitted afterwards includes a 7-bit I²C device address 0x38 and an SDA direction bit (read as R:'1' and written as W:'0').

(a) I2C Address

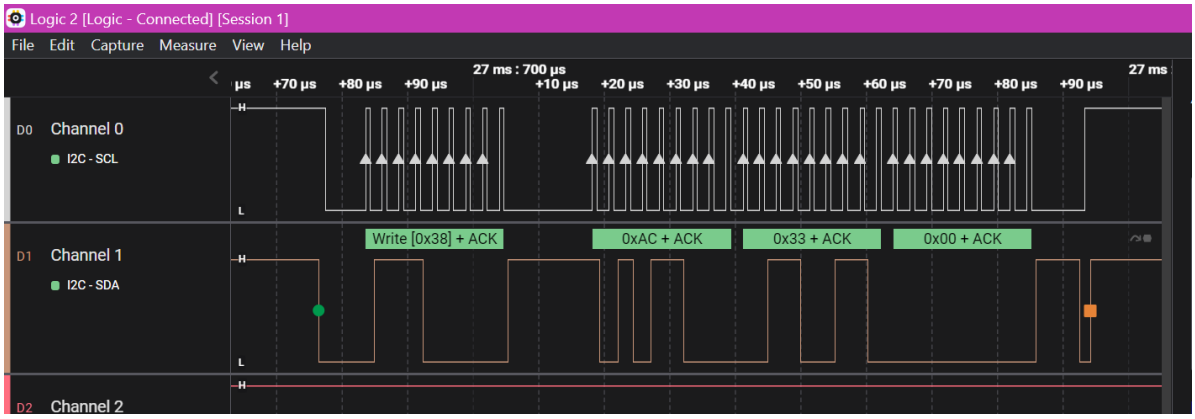


(b) SCL Write

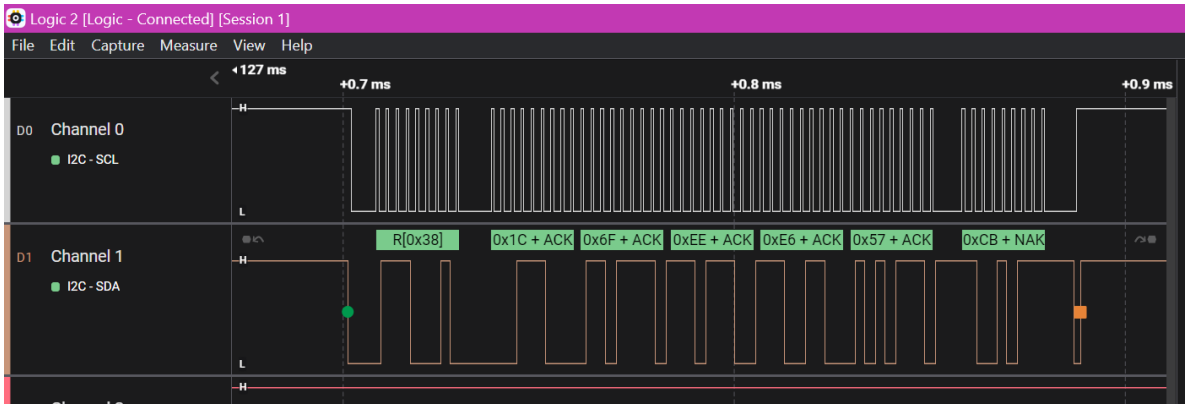


(c) SCL Read

My Findings-

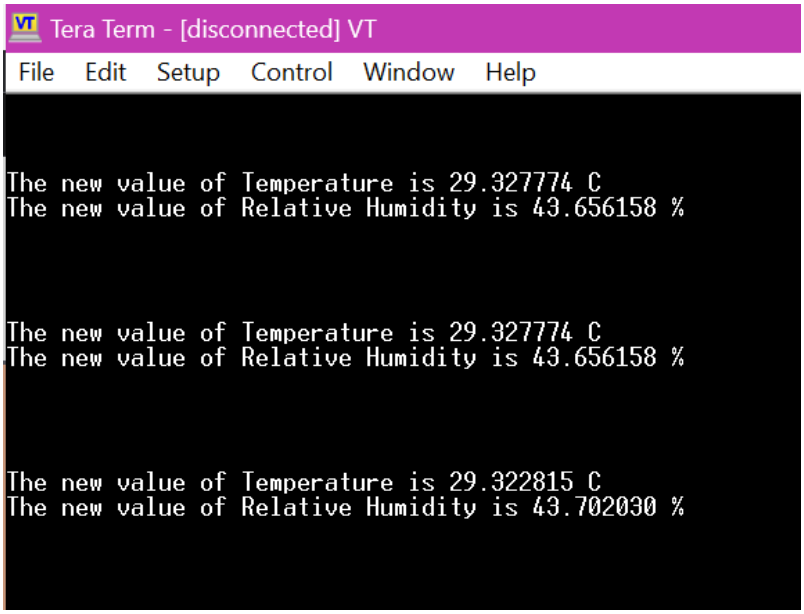


(d) SCL Write (as seen on logic analyzer)

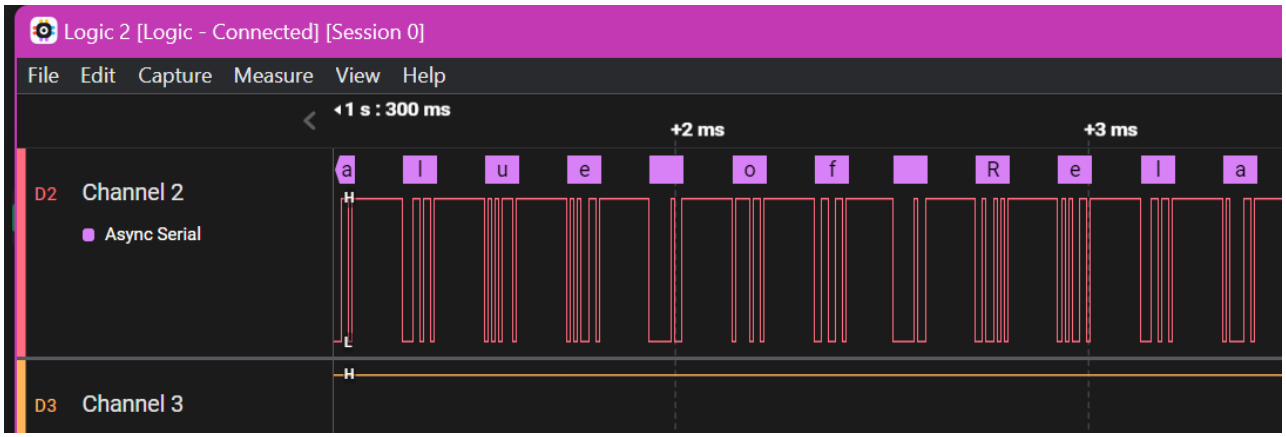


(e) SCL Read (as seen on logic analyzer)

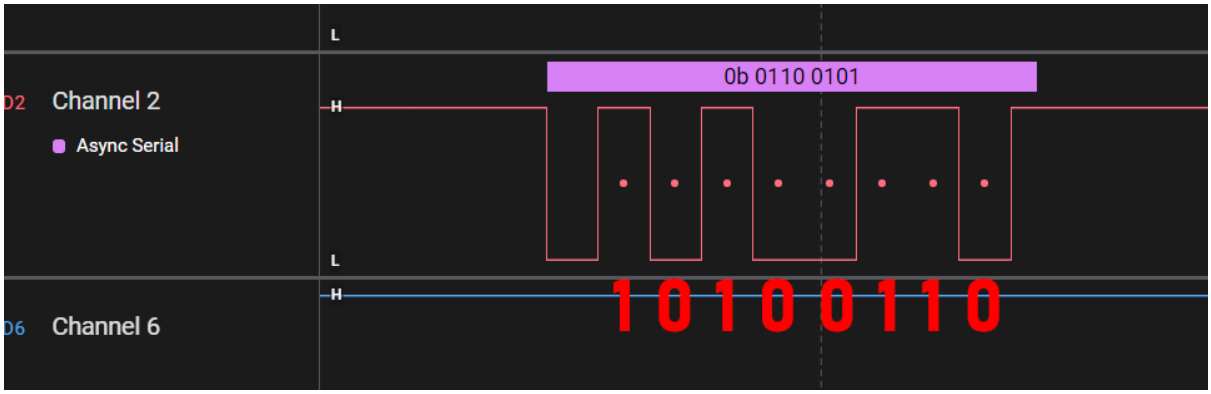
As I have printed on my screen using UART here is the screenshot-



(f) UART printed in Tera-Term



(g) UART (as seen in Logic Analyzer)



(h) Letter ‘e’ as seen in logic analyser zoomed