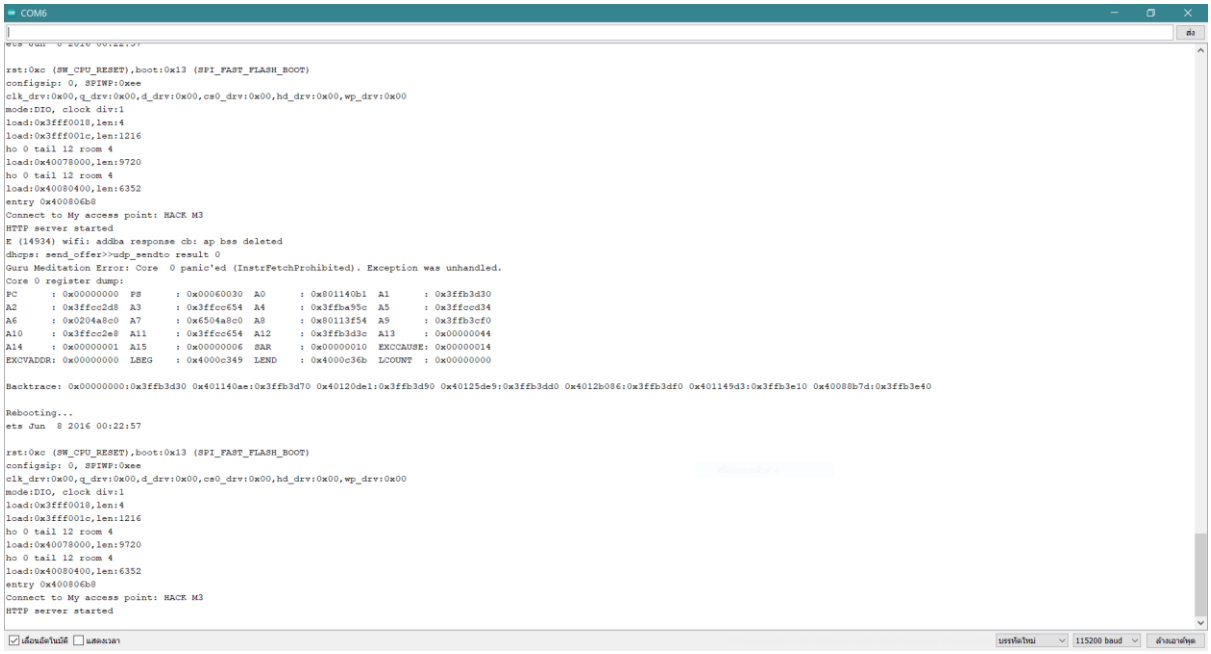
Lab 8 Worksheet

Name Sunat Praphanwong ID 6088130 [P1]

Part A. WiFi

A1. Scanning Access Points

Upload The1stAP.ino and capture the output from Serial Monitor then put it below.



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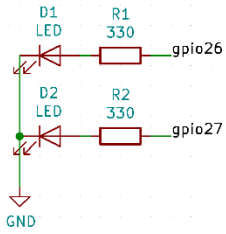
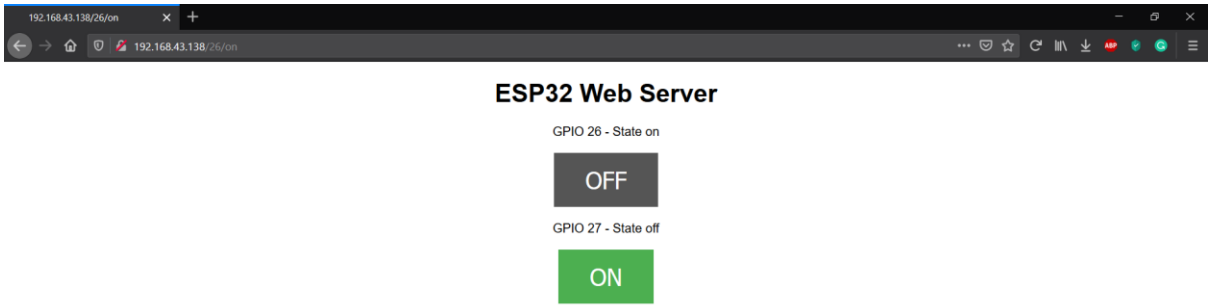
A2. Web Server



Upload The1stWebServer.ino. Join your laptop and ESP32 to your access point (can be your phone hotspot). From laptop access to ESP32 via its IP address on a web browser. Then try controlling 2 LEDs by using the 2 buttongs on the webpage. Take a picture of the webpage and your ESP32 with the LEDs (arrange them in 1 picture) when an LED is turned on and the other one is turned off. Put the picture below.



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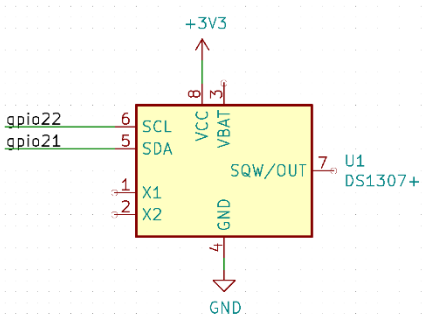
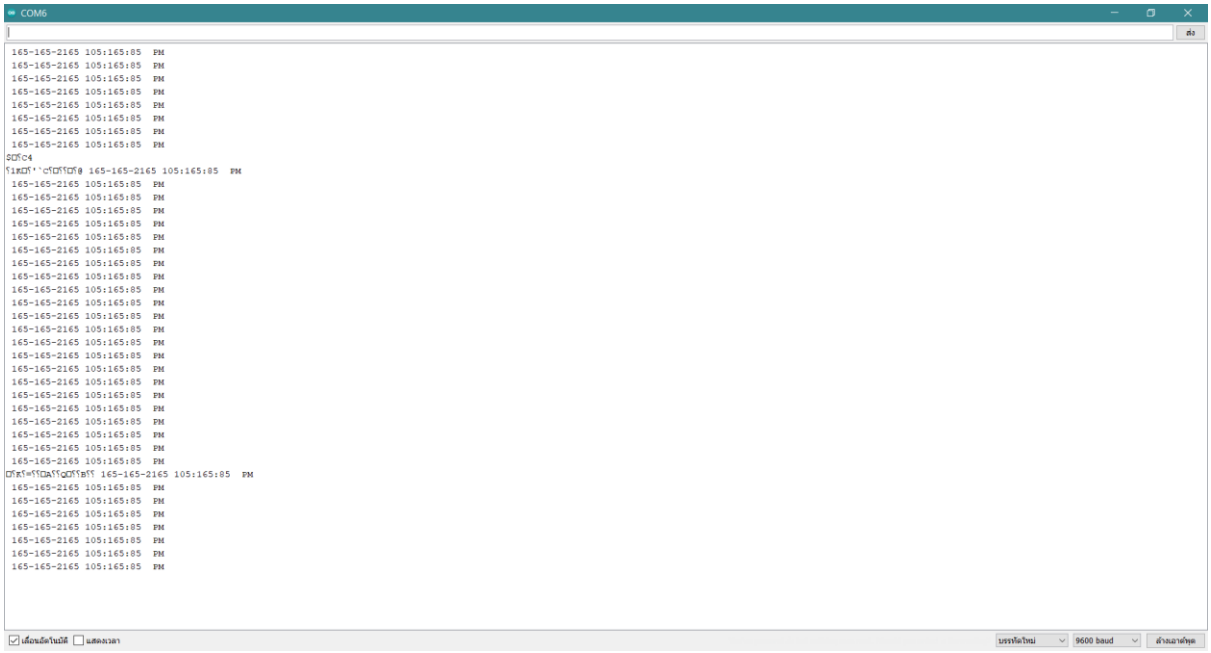
Part B. Network Time Protocol (NTP) and Real Time Clock (RTC)

Wire up the RTC as shown below.



B1. Upload DS1307_M_Adjust.ino and capture the Serial Monitor after resetting ESP32, then put the picture below.



B2. Upload ntp.ino and capture the Serial Monitor after resetting ESP32, then put the picture below.

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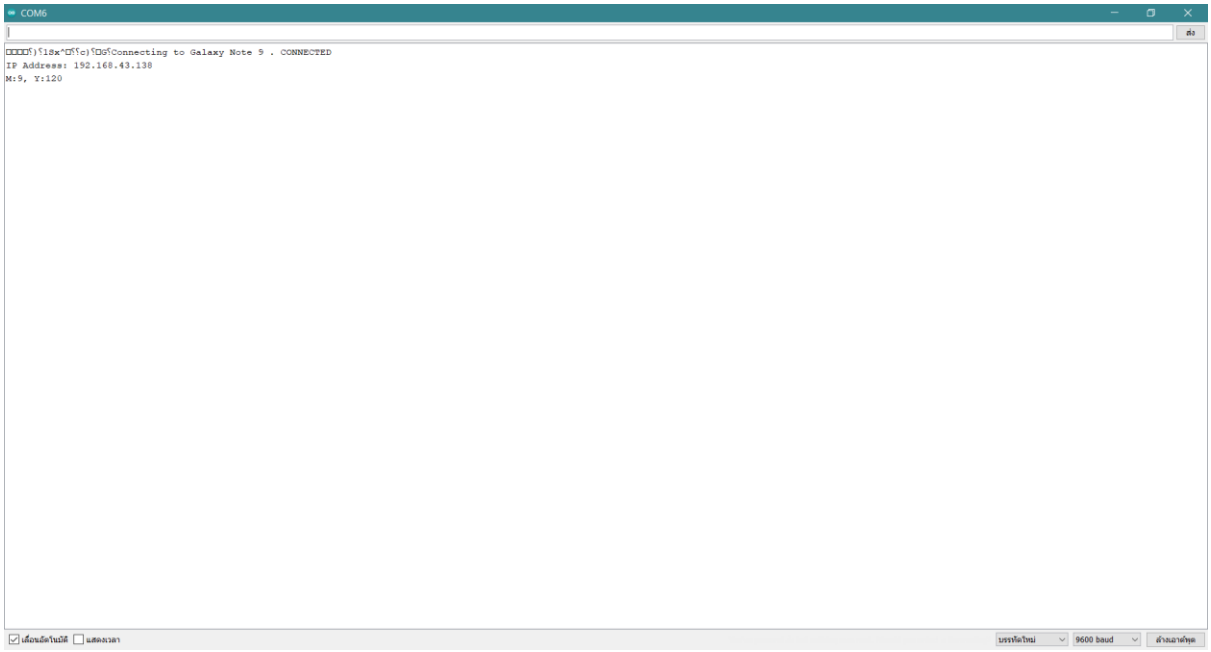

B3. Write a new program that sets the time on DS1307 to the current time from NTP server. Then every second print out the time from DS1307. Put your source code below.

Note The RTC is broken, we can’t get the result from RTC sensor