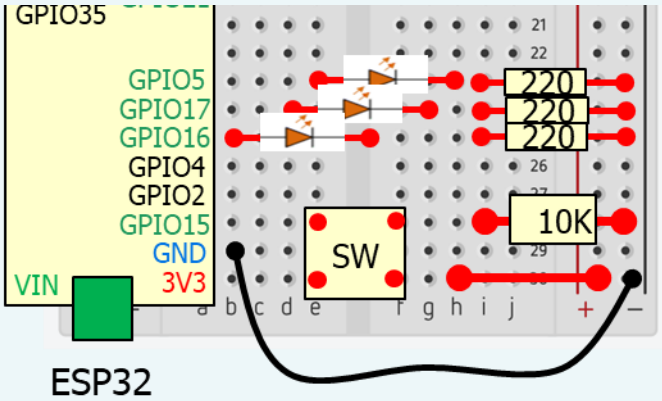
Task09- Step B

Make thing (ESP32 button)

1. Connect ESP32Button to AWS-IoT
   (pub: esp32/button, sub: esp32/buttAck)
2. Test to Publish and Subscribe Topics with MQTT Test Client
3. Configure Rule-Engine as follows:

<if Button Pressed>

- send Email to yourself with Button ID
- reply ACK to ESP32 {“ack”:{“message”: “ACK for button”}}




```
Connecting to WiFi..
Connected to wifi
Connected to AWS
Subscribe Successfull
Publish failed
Publish Message:ESP32-Button:001 Pressed!!
Received Message:{"ack":{"message":"ACK for button"}}
```

☑자동 스크롤 ☐타임스탬프 표시

mail to gen1223 3 받은편지함 AWS Notification Message - {"ack":{"message":"ACK for button"}} – If you wi

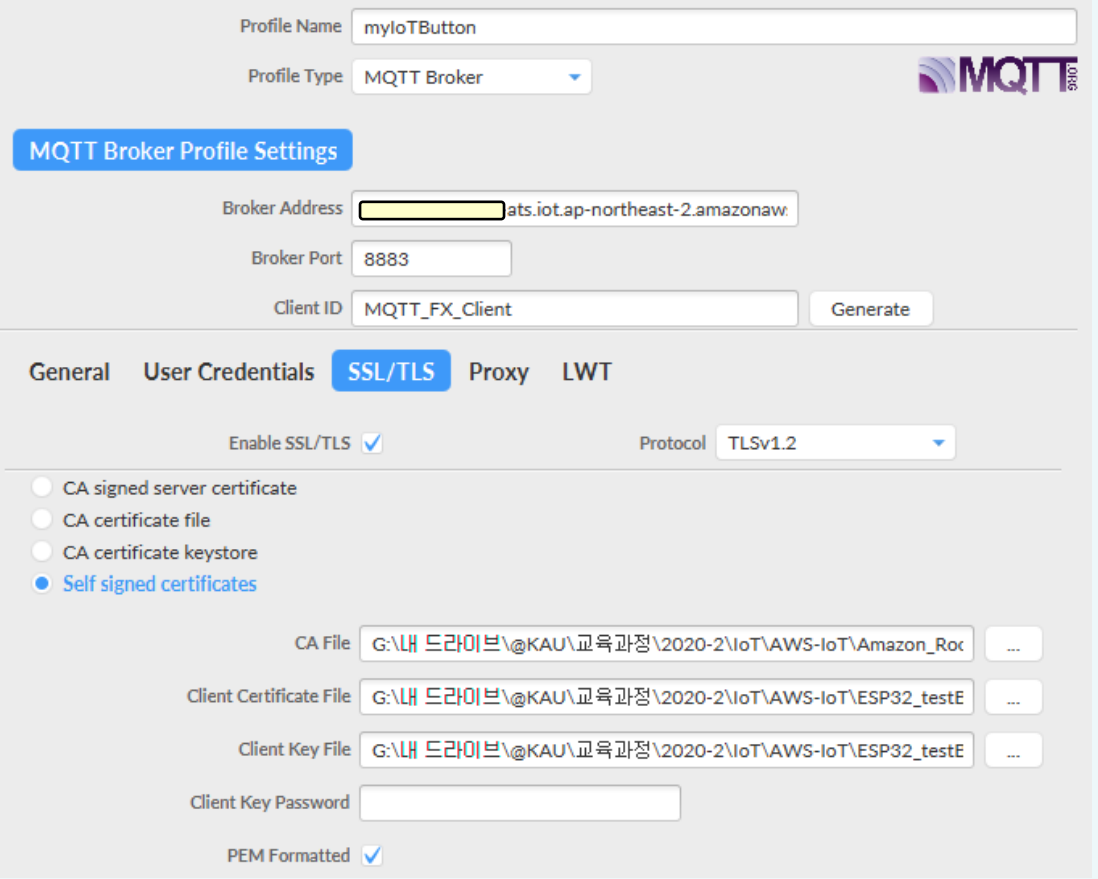
Task09- Step A

- Install MQTT-fx.. from Internet..
- Thing을 만들기전에 Topic/Payload 동작 확인

- Broker addr:
  Thing Rest-API endpoint

- Broker Port: 8883

- CA, Certificate,
  Private-key file 지정
  (for my-thing)



Task09- Step A

- Rule-Engine Setup:

  1. 온도가 40 이상이면 자신의 email로 통보하고
  2. 온도가 30 이상이고 습도가 40 이상일때 LED를 OFF
  3. 온도가 20 이하이고 습도가 10 이하일때 LED를 ON

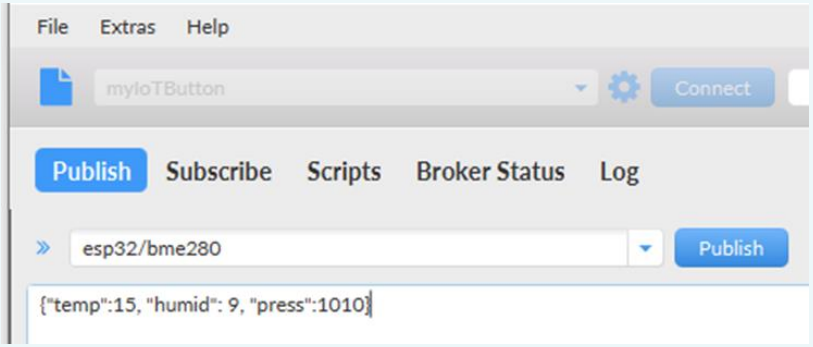
- Topic Setup:

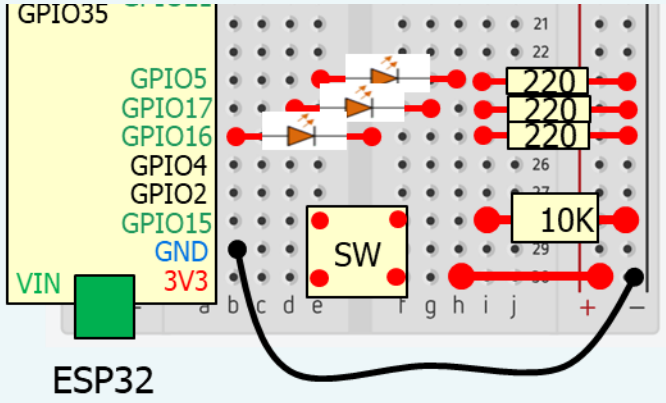
  Publish: esp32/bme280 {“temp”:n, “humid”:n, “press”:n}

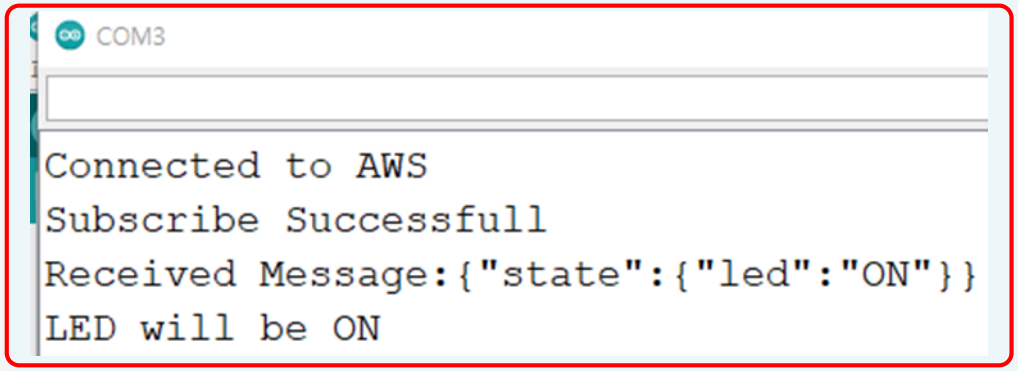
  Subscribe: esp32/led {“state”: {“led”: “ON” | “OFF”}}

Task09- Step A

- Make thing (ESP32_led)
  - Publish ‘esp32/bme280’ by using MQTT-fx
  - Rule-Engine will publish ‘esp32/led’
  - Your ESP32 should receive ‘esp32/led’ topic and control led

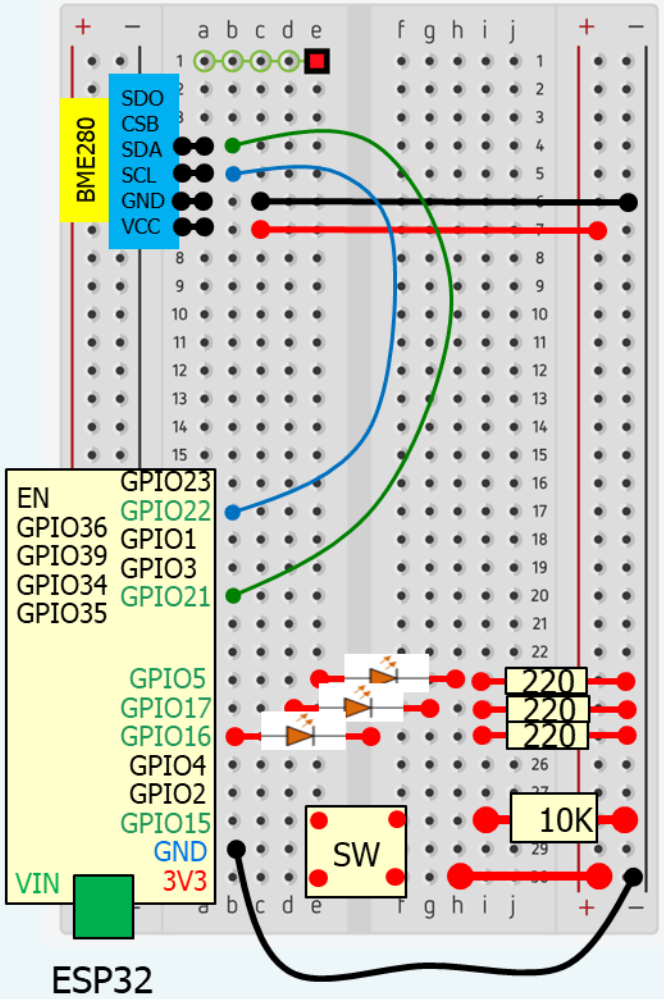






Task09- Step C

- Make thing (ESP32_bme280_led)
  - Connect BME280 onto your ESP32 with I2C



- Publish ‘esp32/bme280’

  {“temp”:n, “humid”:n, “press”:n}

  ** Publish period : 10 ~ 20 sec

  or every time button pressed

- Rule-Engine will send email,

  publish ‘esp32/led’ on condition of Step-A

- Your ESP32 should change LED or

  send mail according to temp, humid..

  (Modify condition of your Rule-Engine

  for test)