# NodeMCU mqtt 2

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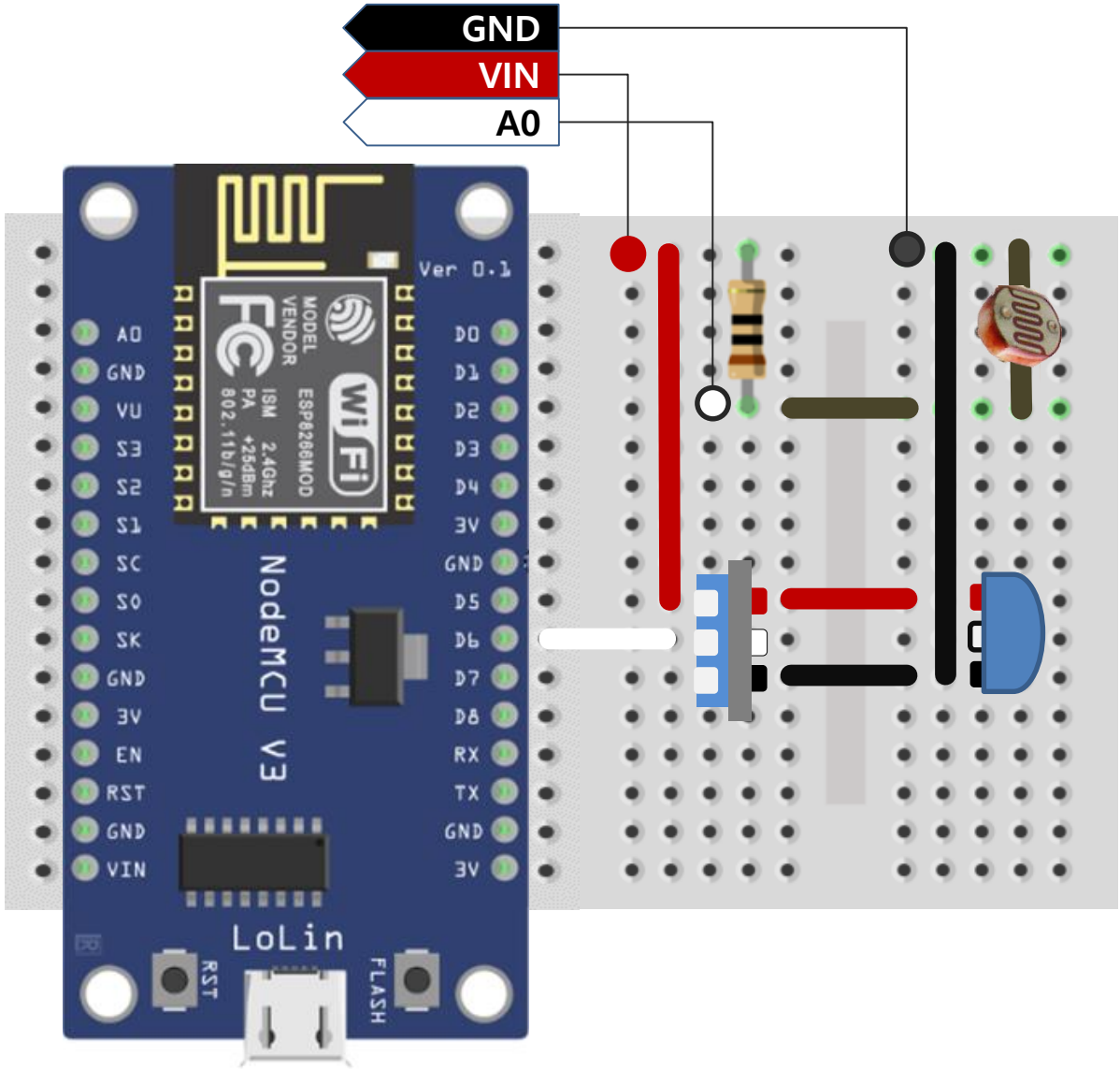
## ❖ 회로도



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## ❖ app.ino

```
#include <MqttCom.h>
#include <DHT.h>
#include <Analog.h>

const char *ssid = "Campus7_Room4_2.4GHz";
const char *password = NULL;
const char *mqtt_server = "192.168.0.159"; // mqtt broker ip address

MqttCom com;
DHT dht11(D6, DHT11); // DHT11 객체 생성
Analog cds(A0, 0, 1023, 0, 100);
```

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## ❖ app.ino

```
void publish() {
    char msg[50];
    float  fh, fc;

    fh = dht11.readHumidity();          // 습도 측정
    fc = dht11.readTemperature();       // 섭씨 온도 측정
    int illu = cds.read();             // 조도 측정

    if (isnan(fh) || isnan(fc)) {  // 측정 실패시에는 출력없이 리턴
        Serial.println("DHT11 read failed!!");
        return;
    }

    com.publish("iot/temp", fc);
    com.publish("iot/humi", fh);
    com.publish("iot/illu", illu);
}
```

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## ❖ app.ino

```
void setup() {
    com.init(ssid, password);
    com.setServer(mqtt_server, NULL, NULL);
    com.setInterval(2000, publish);
    dht11.begin();
}

void loop() {
    com.run();
}
```

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## ❖ publish 확인

- mosquitto_sub -v -h localhost -t **iot/#**