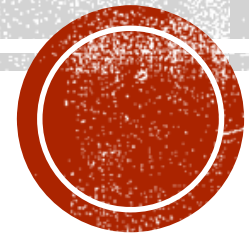


INTERNET OF THINGS CONCEPT

- SOIL MOISTURE SENSOR

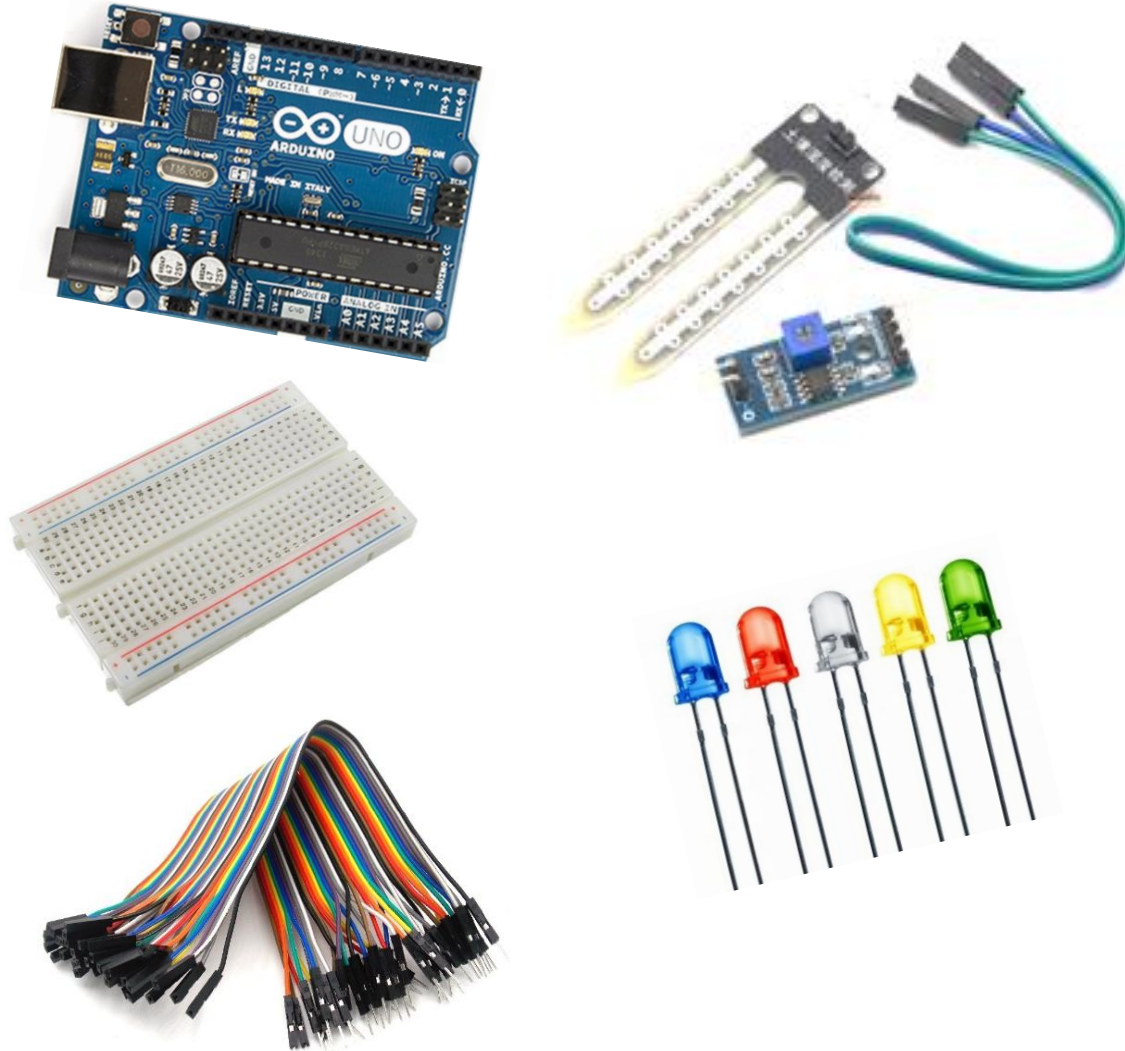


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Soil Moisture Sensor

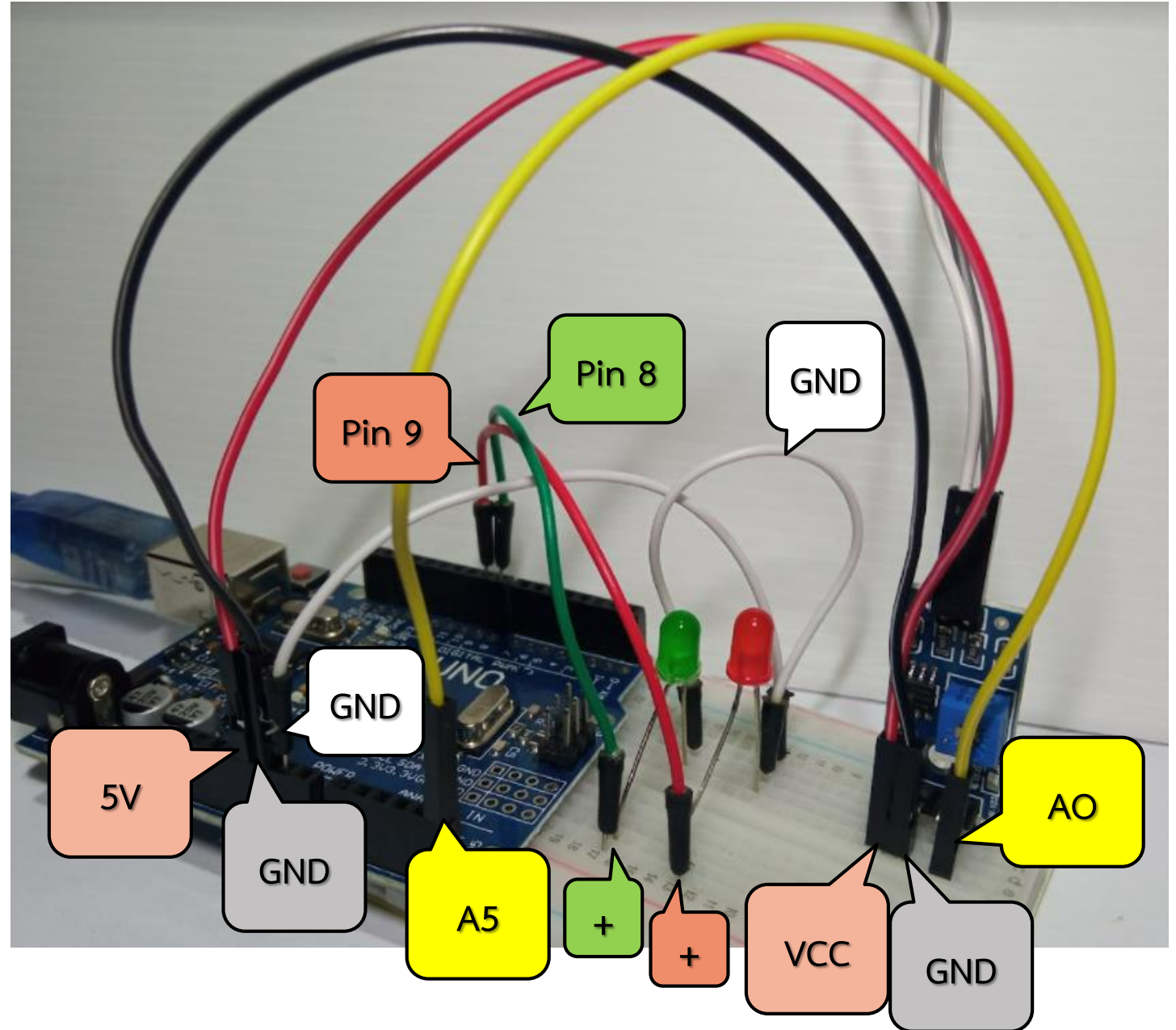


■ อุปกรณ์ที่ใช้

- ARDUINO UNO R3 Board
- Breadboard
- Jumper Wire
- Soil Moisture Sensor
- LED

Soil Moisture Sensor

Soil Moisture	Arduino board
VCC	5V
GND	GND
AO	A5
Green LED	Arduino board
ขา +	Pin 8
ขา GND	GND
Red LED	Arduino board
ขา +	Pin 9
ขา GND	GND





IoT Example – Soil Moisture Sensor

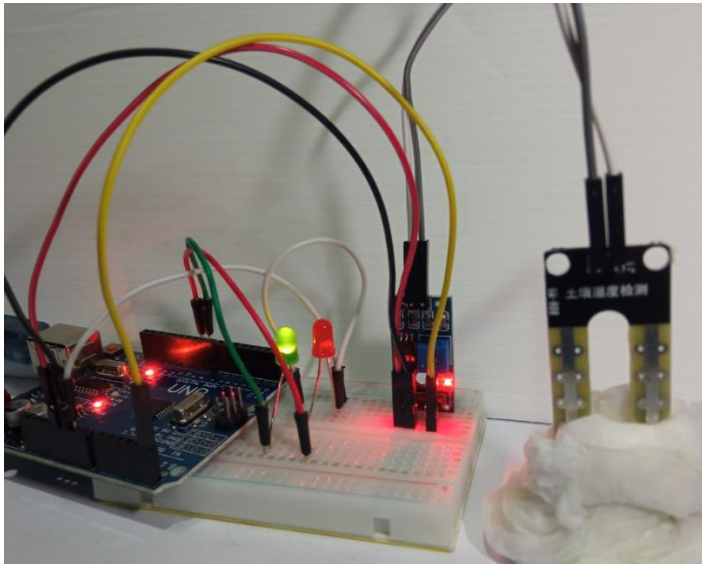
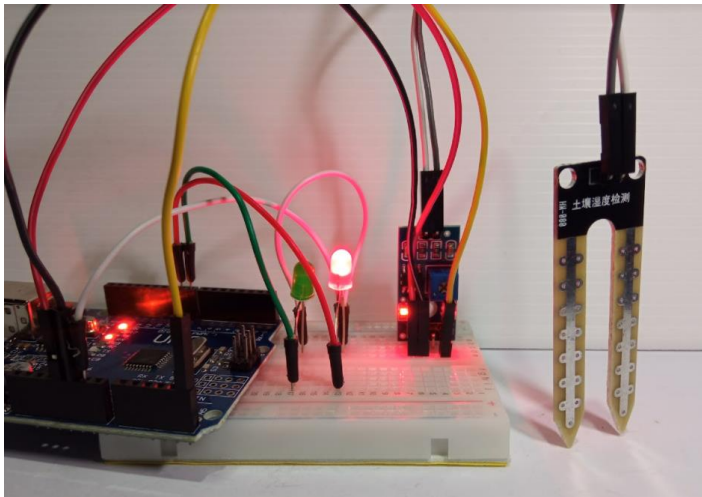
```
const int greenled = 8;
const int redled = 9;

int analogPin = A5;
int val = 0;
void setup() {
  pinMode(greenled, OUTPUT);
  pinMode(redled, OUTPUT);
  Serial.begin(9600);
}
```

```
void loop() {
  val = analogRead(analogPin);
  Serial.print("val = ");
  Serial.println(val);
  if (val > 500) {
    digitalWrite(greenled, LOW);
    digitalWrite(redled, HIGH);
  }
  else {
    digitalWrite(greenled, HIGH);
    digitalWrite(redled, LOW);
  }
  delay(100);
}
```




IoT Example – Soil Moisture Sensor



```
COM6
val = 690
val = 743
val = 794
val = 828
val = 849
val = 860
val = 876
val = 899
val = 910
val = 884
val = 865
val = 837
val = 794
```

☒ Autoscroll ☐ Show timestamp Newline 9600 baud Clear output



Q/A

