

PROJECT DEVELOPMENT PHASE
SPRINT-2

Date	15 November 2022
Team ID	PNT2022TMID32996
Project Name	IoT- Based Smart Crop Protection System For Agriculture

WOKWI CODE TO STIMULATE TEMPERATURE AND HUMIDITY:

```
#include "DHT.h"

#define DHTPIN 2
#define DHTTYPE DHT22

DHT dht(DHTPIN, DHTTYPE);

void setup() {
    Serial.begin(115200);
    Serial.println(F("DHT22 example!"));

    dht.begin();
}

void loop() {
    float temperature = dht.readTemperature();
    float humidity = dht.readHumidity();

    if (isnan(temperature) || isnan(humidity)) {
        Serial.println(F("Failed to read from DHT sensor!"));
        return;
    }

    Serial.print(F("Humidity: "));
    Serial.print(humidity);
    Serial.print(F("% Temperature: "));
    Serial.print(temperature);
    Serial.println(F("°C "));

    delay(2000);
}
```

OUTPUT:

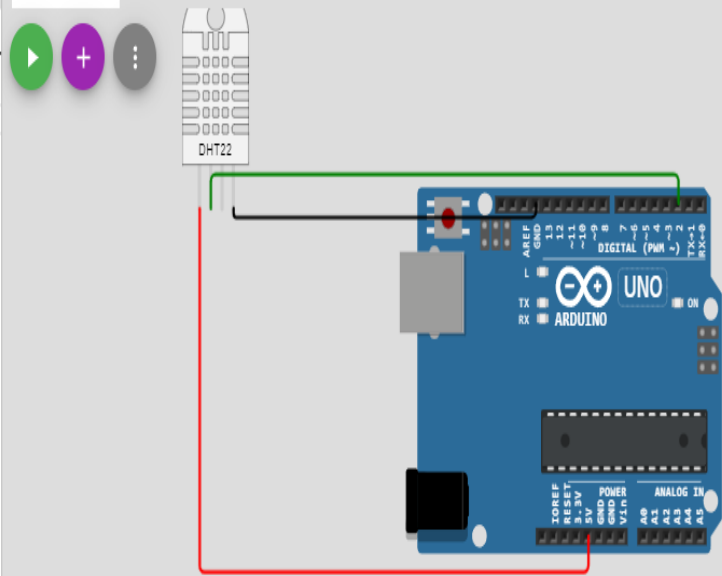
TEPM & HUMID.ino ● diagram.json ● Library Manager ▼

```

1 #include "DHT.h"
2
3 #define DHTPIN 2
4 #define DHTTYPE DHT22
5
6 DHT dht(DHTPIN, DHTTYPE);
7
8 void setup() {
9     Serial.begin(115200);
10    Serial.println(F("TEMP & HUMID!"));
11
12    dht.begin();
13 }
14
15 void loop() {
16     float temperature = dht.readTemperature();
17     float humidity = dht.readHumidity();
18
19     if (isnan(temperature) || isnan(humidity)) {
20         Serial.println(F("Failed to read from DHT sensor!"));
21         return;
22     }
23
24     Serial.print(F("Humidity: "));
25     Serial.print(humidity);
26     Serial.print(F("% Temperature: "));
27     Serial.print(temperature);
28     Serial.println(F("°C "));
29 }

```

Simulation



DHT22 example!

[illegible]