PROJECT DEVELOPMENT PHASE
SPRINT-2

Team ID	PNT2022TMID41751
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

```ino
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void setup() {
  Serial.begin(115200);
  Serial.println(F("TEMP & HUMID!"));

  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 "));

```
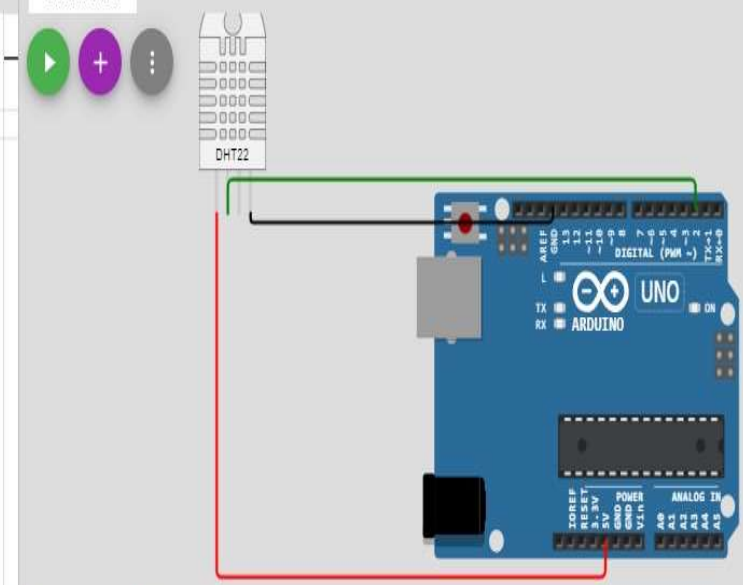

Simulation




```
DHT22 example!
Humidity: 40.00%  Temperature: 24.00°C
Humidity: 40.00%  Temperature: 24.00°C
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Humidity: 40.00%  Temperature: 24.00°C
Humidity: 40.00%  Temperature: 24.00°C
Humidity: 40.00%  Temperature: 24.00°C
```