SPRINT 1

Date	07 November 2022
Team ID	PNT2022TMID21337
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application

Connecting Sensors with Arduino

```
#include "DHT.h"

#define DHTPIN 2
#define DHTTYPE DHT22   // DHT 22  (AM2302), AM2321

DHT dht(DHTPIN, DHTTYPE);

void setup() {
  Serial.begin(115200);

  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 "));

  if(humidity<85 && humidity>75)
```
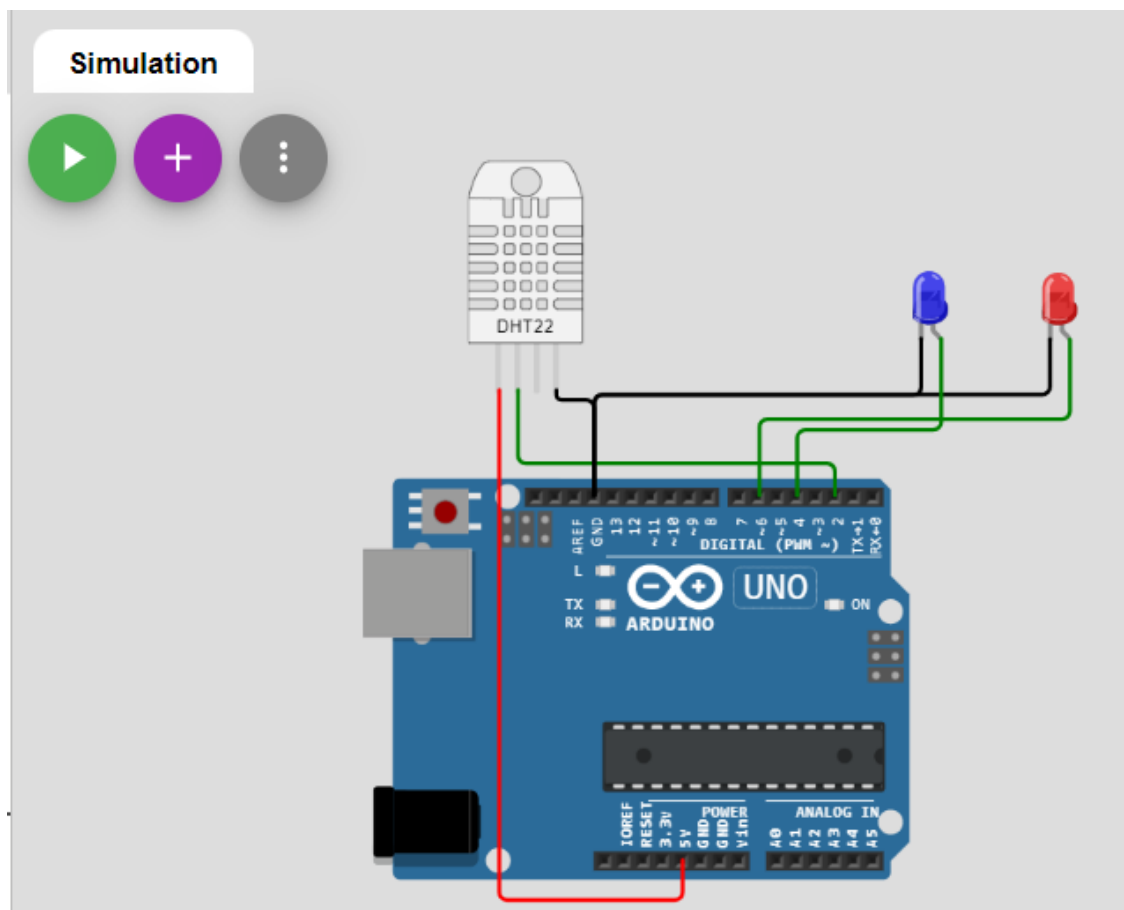
```
    digitalWrite(4,LOW);
  else
    digitalWrite(4,HIGH);

  if(temperature<30.0 && temperature>20.0)
    digitalWrite(6,LOW);
  else
    digitalWrite(6,HIGH);

  // Wait a few seconds between measurements.
  delay(2000);
```

Circuit Diagram

Link: **https://wokwi.com/projects/347604796870492756**