#include <DHT.h> // *function to work with DHT11 sensor*

#define DHTPIN 2 // Define the pin where your DHT11 is connected

#define DHTTYPE DHT11 // Define the type of DHT sensor (DHT11 or DHT22)

DHT dht(DHTPIN, DHTTYPE); // *dht is object of DHT define pin and sensor*

void setup() {

  Serial.begin(9600);

  dht.begin(); // *initialized the DHT sensor for communication*

}

void loop() {

  delay(2000); // Delay for 2 seconds between measurements

  // Read temperature and humidity from the sensor

  float temperature = dht.readTemperature(); *// read the temp values*

  float humidity = dht.readHumidity(); //read humidity values

  // Check if any reads failed and exit early (to try again).

  if (isnan(temperature) || isnan(humidity)) {

    Serial.println("Failed to read from DHT sensor");

    return;

  }

  // Print the temperature and humidity values to the serial monitor

  Serial.print("Temperature: ");

  Serial.print(temperature);

  Serial.println(" °C");

  Serial.print("Humidity: ");

  Serial.print(humidity);

  Serial.println(" %");

  // You can also convert to Fahrenheit if needed

  // float fahrenheit = (temperature \* 1.8) + 32;

  // Serial.print("Temperature: ");

  // Serial.print(fahrenheit);

  // Serial.println(" °F");

}