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#include "DHT.h"

#define DHTPIN 19    // GPIO pin connected to the DHT22 sensor
#define DHTTYPE DHT22 // Define the type of DHT sensor

DHT dht(DHTPIN, DHTTYPE); // Create DHT object

void setup() {
    Serial.begin(9600); // Start the Serial monitor
    dht.begin();        // Initialize the DHT sensor
}

void loop() {
    float h = dht.readHumidity();    // Read humidity
    float t = dht.readTemperature(); // Read temperature in Celsius

    // Check if reads failed
    if (isnan(h) || isnan(t)) {
        Serial.println("Failed to read from DHT sensor!");
        return;
    }

    // Print the results
    Serial.print("HUMIDITY = ");
    Serial.print(h);
    Serial.println(" %");

    Serial.print("TEMPERATURE = ");
    Serial.print(t);
    Serial.println(" °C");

    delay(2000); // Wait 2 seconds between readings
}
```

