// https://randomnerdtutorials.com/guide-for-ds18b20-temperature-sensor-with-arduino/

#include <OneWire.h>

#include <DallasTemperature.h>

// Data wire is conntec to the Arduino digital pin 4

#define ONE\_WIRE\_BUS 4

// Setup a oneWire instance to communicate with any OneWire devices

OneWire oneWire(ONE\_WIRE\_BUS);

// Pass our oneWire reference to Dallas Temperature sensor

DallasTemperature sensors(&oneWire);

void setup(void)

{

// Start serial communication for debugging purposes

Serial.begin(9600);

// Start up the library

sensors.begin();

}

void loop(void){

// Call sensors.requestTemperatures() to issue a global temperature and Requests to all devices on the bus

sensors.requestTemperatures();

Serial.print("Celsius temperature: ");

// Why "byIndex"? You can have more than one IC on the same bus. 0 refers to the first IC on the wire

Serial.print(sensors.getTempCByIndex(0));

Serial.print(" - Fahrenheit temperature: ");

Serial.println(sensors.getTempFByIndex(0));

delay(1000);

}