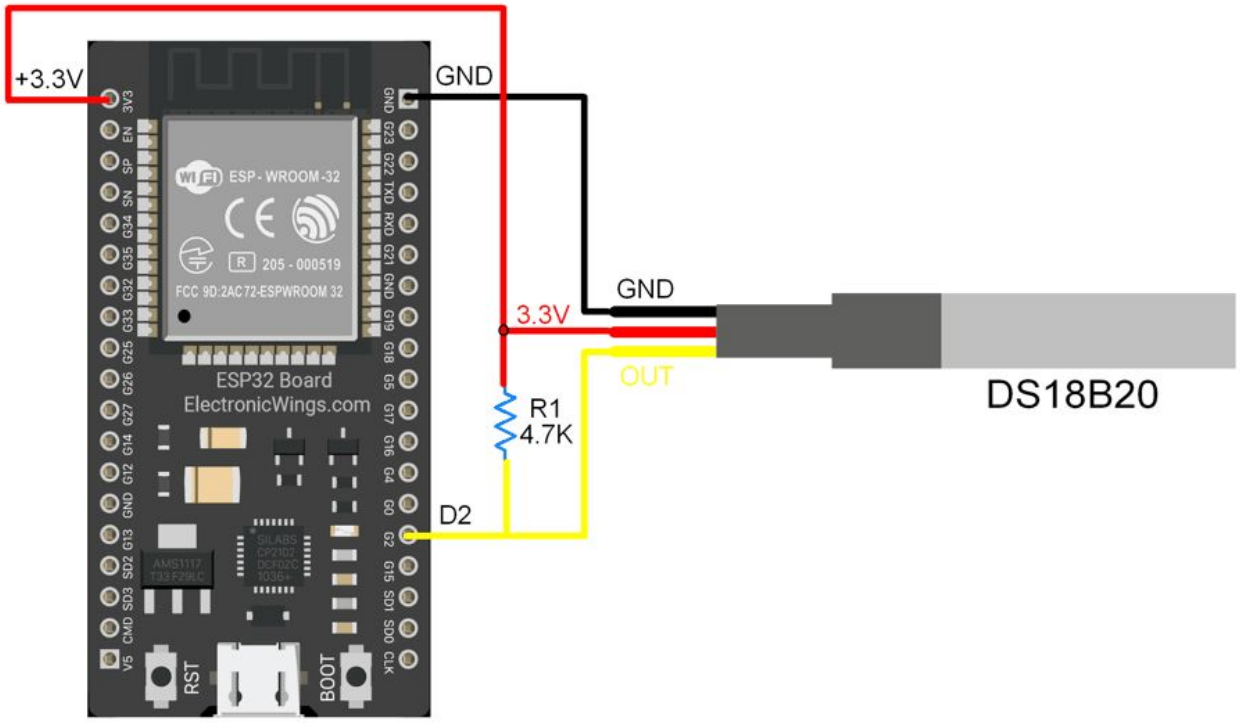
Connecting a Tempature Sensor to an esp32

Measure Temperature using DS18B20 and ESP32

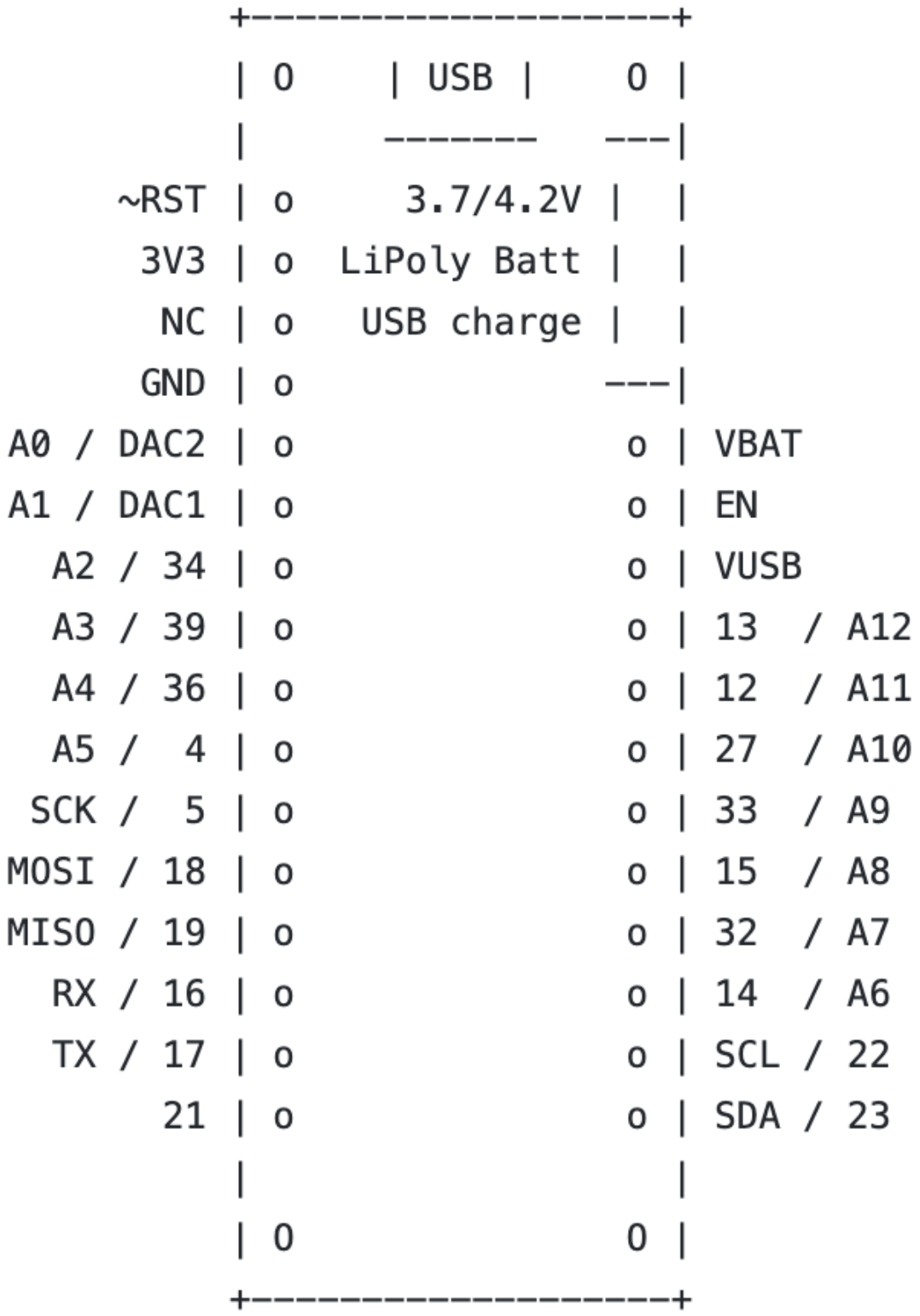
Make sure you download the Dallas library and the Onewire library

```
/*********
  Rui Santos
  Complete project details at https://RandomNerdTutorials.com
*********/

#include <OneWire.h>
#include <DallasTemperature.h>

// GPIO where the DS18B20 is connected to
const int oneWireBus = 4;

// Setup a oneWire instance to communicate with any OneWire devices
OneWire oneWire(oneWireBus);

// Pass our oneWire reference to Dallas Temperature sensor
DallasTemperature sensors(&oneWire);

void setup() {
  // Start the Serial Monitor
  Serial.begin(115200);
  // Start the DS18B20 sensor
  sensors.begin();
}

void loop() {
  sensors.requestTemperatures();
  float temperatureC = sensors.getTempCByIndex(0);
  float temperatureF = sensors.getTempFByIndex(0);
  Serial.print(temperatureC);
  Serial.println("ºC");
  Serial.print(temperatureF);
  Serial.println("ºF");
  delay(5000);
}
```

WIRING DIAGRAM:



PINOUT:


| O | USB | O |
| | ------- ---|
~RST | o 3.7/4.2V | |
3V3 | o LiPoly Batt | |
NC | o USB charge | |
GND | o ---|
A0 / DAC2 | o o | VBAT
A1 / DAC1 | o o | EN
A2 / 34 | o o | VUSB
A3 / 39 | o o | 13 / A12
A4 / 36 | o o | 12 / A11
A5 / 4 | o o | 27 / A10
SCK / 5 | o o | 33 / A9
MOSI / 18 | o o | 15 / A8
MISO / 19 | o o | 32 / A7
RX / 16 | o o | 14 / A6
TX / 17 | o o | SCL / 22
21 | o o | SDA / 23
| |
| O O |