

Exercise 15_ThingSpeak

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```
1  #include <ESP8266WiFi.h>
2  #include <ThingSpeak.h>
3
4  const char* ssid = "Lukas telefon";
5  const char* pass = "11111111";
6
7  WiFiClient client;
8
9  unsigned long channelID = 2397414; //your TS channel
10 const char* APIKey = "7AK685PVDZJP7CLW"; //your TS API
11 const char* server = "api.thingspeak.com";
12 const int postDelay = 1 * 1000; //post data every 20 seconds
13
14 void setup() {
15     Serial.begin(115200);
16     pinMode(D2, OUTPUT);
17     pinMode(D3, INPUT);
18     WiFi.begin(ssid, pass);
19 }
20
21 float data; //measured data
22
23 void loop() {
24     digitalWrite(D2, LOW);
25     if (digitalRead(D2) == 1) {
26         data = 1;
27     }
28     else {
29         data = 0;
30     }
31
32     long rssi = WiFi.RSSI();
33
34     ThingSpeak.begin(client);
35     client.connect(server, 80); //connect(URL, Port)
36
37     ThingSpeak.setField(1, data); //set data on the X graph
38     ThingSpeak.setField(2, rssi); //set data on the X graph
39     ThingSpeak.writeFields(channelID, APIKey); //post everything to TS
40
41     //ThingSpeak.setField(2, data, rssi); //set data on the X graph
42     //ThingSpeak.writeFields(channelID, APIKey); //post everything to TS
43
44     client.stop();
45     delay(postDelay); //wait and then post again
46 }
```

