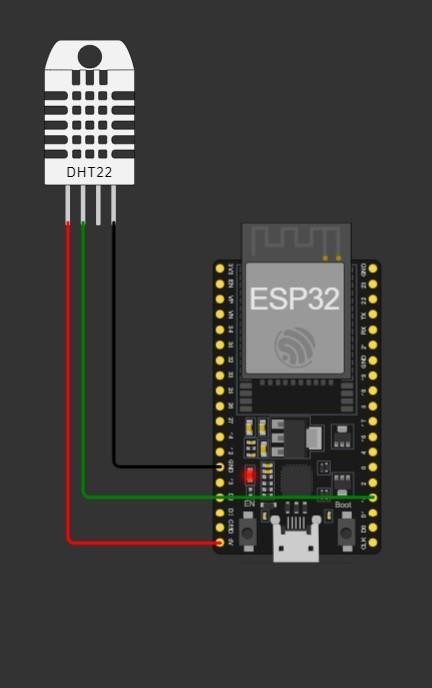
Temperature & Humidity Monitoring Using WOKWI

DHT11 WITH ESP8266

#include <DHTesp.h>

const int DHT\_PIN=15;

DHTesp dhtSensor;

void setup() {

Serial.begin(115200);

dhtSensor.setup(DHT\_PIN, DHTesp::DHT22);

}

void loop() {

TempAndHumidity data = dhtSensor.getTempAndHumidity();

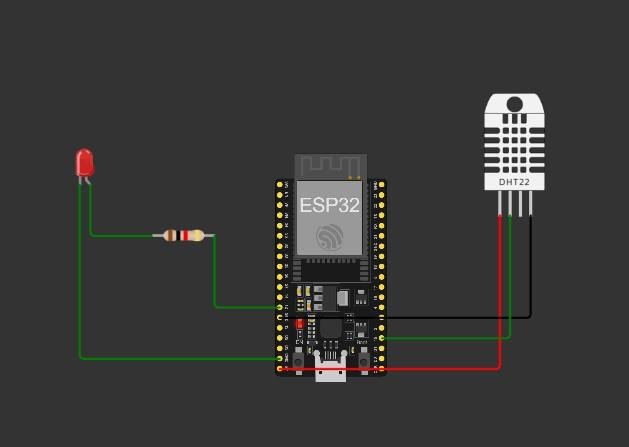
Serial.println("Temp: " + String(data.temperature,2)+"°C");

Serial.println("Humidity: "+ String(data.humidity,1)+"%");

Serial.println("-------------------");

  delay(2000);

}

Temperature & Humidity Monitoring Using WOKWI and ThingSpeak

DHT11 AND LED AND ESP8266

#include <WiFi.h>

#include "DHTesp.h"

#include "ThingSpeak.h"

const int DHT\_PIN = 15;

const int LED\_PIN = 14;

const char\* WIFI\_NAME = "Wokwi-GUEST";

const char\* WIFI\_PASSWORD = "";

const int myChannelNumber = 2454896;

const char\* myApiKey = "K4RERX25274NCZY2";

const char\* server = "api.thingspeak.com";

DHTesp dhtSensor;

WiFiClient client;

void setup() {

Serial.begin(115200);

dhtSensor.setup(DHT\_PIN, DHTesp::DHT22);

pinMode(LED\_PIN, OUTPUT);

WiFi.begin(WIFI\_NAME, WIFI\_PASSWORD);

while (WiFi.status() != WL\_CONNECTED){

delay(1000);

Serial.println("Wifi not connected");

}

Serial.println("Wifi connected !");

Serial.println("Local IP: " + String(WiFi.localIP()));

WiFi.mode(WIFI\_STA);

ThingSpeak.begin(client);

}

void loop() {

TempAndHumidity data = dhtSensor.getTempAndHumidity();

ThingSpeak.setField(1,data.temperature);

ThingSpeak.setField(2,data.humidity);

if (data.temperature > 35 || data.temperature < 12 || data.humidity > 70 || data.humidity < 40) {

digitalWrite(LED\_PIN, HIGH);

}else{

digitalWrite(LED\_PIN, LOW);

}

int x = ThingSpeak.writeFields(myChannelNumber,myApiKey);

Serial.println("Temp: " + String(data.temperature, 2) + "°C");

Serial.println("Humidity: " + String(data.humidity, 1) + "%");

if(x == 200){

Serial.println("Data pushed successfull");

}else{

Serial.println("Push error" + String(x));

}

Serial.println("---");

delay(10000);

}