/\* How to use the DHT-22 sensor with Arduino uno

Temperature and humidity sensor

More info: http://www.ardumotive.com/how-to-use-dht-22-sensor-en.html

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//Libraries

#include <DHT.h>;

//Constants

#define DHTPIN 2 // what pin we're connected to

#define DHTTYPE DHT22 // DHT 22 (AM2302)

DHT dht(DHTPIN, DHTTYPE); //// Initialize DHT sensor for normal 16mhz Arduino

//Variables

int chk;

float hum; //Stores humidity value

float temp; //Stores temperature value

int RELAY1 = 7 ;

void setup()

{

Serial.begin(9600);

dht.begin();

pinMode(RELAY1, OUTPUT);

}

void loop()

{

//Read data and store it to variables hum and temp

hum = dht.readHumidity();

temp= dht.readTemperature();

//Print temp and humidity values to serial monitor

Serial.print("Humidity: ");

Serial.print(hum);

Serial.print(" %, Temp: ");

Serial.print(temp);

Serial.println(" Celsius");

delay(2000); //Delay 2 sec.

if (temp >= 37)

{

digitalWrite(RELAY1, HIGH) ;

Serial.println("fan ON");

}

else{

digitalWrite(RELAY1,LOW); // Turns Relay Off

Serial.println("fan OFF");

}

}