int tempPin = 0;

int buzzer=11;

void setup()

{

pinMode(buzzer, OUTPUT);

Serial.begin(9600);

}

void loop()

{

Serial.println("=================================");

Serial.println("Leyendo Thermistor...");

int tempReading = analogRead(tempPin);

// This is OK

double tempK = log(10000.0 \* ((1024.0 / tempReading - 1)));

tempK = 1 / (0.001129148 + (0.000234125 + (0.0000000876741 \* tempK \* tempK )) \* tempK ); // Temp Kelvin

float tempC = tempK - 273.15; // Convert Kelvin to Celcius

float tempF = (tempC \* 9.0)/ 5.0 + 32.0; // Convert Celcius to Fahrenheit

/\* replaced

float tempVolts = tempReading \* 5.0 / 1024.0;

float tempC = (tempVolts - 0.5) \* 10.0;

float tempF = tempC \* 9.0 / 5.0 + 32.0;

\*/

// Display Temperature in C

Serial.println(tempC);

delay(500);

if (tempC>100 && tempC<=150){ //PONER VALOR Thermistor PARA QUE SE ENCIENDA

for(int i=0; i<10; i++){

digitalWrite(buzzer, HIGH);

delay(200);

digitalWrite(buzzer, LOW);

delay(500);

}}

if (tempC>151){ //PONER VALOR Thermistor PARA QUE SE ENCIENDA MÁS RÁPIDO

for(int i=0; i<10; i++){

digitalWrite(buzzer, HIGH);

delay(500);

digitalWrite(buzzer, LOW);

delay(200);

}}}