var request = require("request");

const mraa = require('mraa');

var mqtt = require('mqtt');

var client = mqtt.connect('mqtt://iot.eclipse.org', {

will: {

topic: 'sadidtahsin',

payload: 'mypayload',

qos: 0,

retain: true,

},

clientID: 'f6c63264-99d0-4fa3-a0eb-0358a8eb1b67'

});

var analogPin0 = new mraa.Aio(0);

//var analogPin1 = new mraa.Aio(1);

//var analogPin2 = new mraa.Aio(2);

function sensorValue(sensorName) {

if (sensorName == "temp") {

var analogTemp = analogPin0.read();

resistance = (1023-analogTemp)\*10000.0/analogTemp;

temp =1/(Math.log(resistance/10000.0)/3975+1/298.15)-273.15;

var tt= Math.round( temp \* 1e2 ) / 1e2;

if(tt>20){

client.publish('sadidtahsin', 'High Temparature');

}

return tt;

}

if (sensorName == "sound") {

var analogValue = analogPin1.read();

return Math.round( analogValue \* 1e2 ) / 1e2;

}

if (sensorName == "light") {

var analogLight = analogPin2.read();

var L\_sensor= (1023-analogLight)\*10/analogLight;

return Math.round(L\_sensor \* 1e2 ) / 1e2;

}

}

var json = {

name: "",

value: 0,

timestamp: ""

}

function sendData(sensorName,unit) {

// json.id = rowCount++;

json.name = sensorName;

json.value = sensorValue(sensorName);

json.timestamp = new Date();

request({

method: "POST",

url: "http://192.168.4.191:5000/sensor",

json: true,

headers: {

"content-type": "application/json",

},

body: json

}, function (err, res, body) {

});

}

setInterval(function () {

// var d=sensorValue("temp");

// console.log (d);

sendData('temp',"C");

}, 1000);