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QN:Build a python code,assume u get temperature and humidity values(generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperatue.

Arduino code:

#include<dht.h>

dht DHT;

#define DHT11\_PIN 4

Int temp;

Int hum;

Int buzzer=13;

Void setup()

{

Serial.begin(9600);

}

Void loop()

{

int chk=DHT.read(DHT11\_PIN);

temp=DHT.temperature;

hum=DHT.humidity;

Serial.print(temp);

Serial.print(“x”);

Serial.println(hum);

delay(2000);

if(temp>=60)

{

digitalWrite(13,HIGH);

delay(500);

digitalWrite(13,LOW);

delay(500);

}

else{

delay(1000);

}

}

Python Code:

import serial

import time

import schedule

def main\_func();

arduino=serial.Serial(‘com3’,9600)

print(‘established serial connection to arduino’)

arduino\_data=arduino.readline()

decoded\_values=str(arduino\_data[0:len(arduino\_data)].decode(“utf-8))

list\_values=decoded\_values.split(‘x’)

for item in list\_values:

list\_in\_floats.append(float(item))

print(‘collected readings from arduino:’)

arduino\_data=0

list\_in\_floats.clear()

list\_values.clear()

arduino.close()

print(‘connection closed’)

print(‘<----------------------------->’)