

Build a python code assume you get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature

Ardino code:

```
#include <SimpleDHT.h>
#include <LiquidCrystal.h>

char d;

// for DHT11,
//   VCC: 5V or 3V
//   GND: GND
//   DATA: 2

int pinDHT11 = 8;
SimpleDHT11 dht11(pinDHT11);
LiquidCrystal lcd(2,3,4,5,6,7);

void setup() {
  Serial.begin(9600);
  lcd.begin(16, 2);
}

void loop() {
  if(Serial.available())
  {
    d=Serial.read();
  }
  if (d=='a')
  {

    // read without samples.
```

```

byte temperature = 0;
byte humidity = 0;
int err = SimpleDHTErrSuccess;
if ((err = dht11.read(&temperature, &humidity, NULL)) != SimpleDHTErrSuccess) {
    return;
}
//lcd.setCursor(0,0);
//lcd.print("Temp is ");
//lcd.print((int)temperature); lcd.print(" *C, ");
//lcd.setCursor(0,1);
//lcd.print("Humidity:");
//lcd.print((float)humidity);
Serial.println(temperature);
Serial.println(humidity);
// DHT11 sampling rate is 1HZ.
delay(1500);
}
}

```

Python code:

```

import serial
import time
import pyttsx3
import speech_recognition as sr

def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")

```

```

    r.pause_threshold = 0.5
    audio = r.listen(source)

try:
    print("Recognizing... wait a minute")
    query = r.recognize_google(audio, language='en-in')
    print(f"User said: {query}\n")

except Exception as e:
    # print(e)
    print("Say that again please... icannot recognizing")
    query = "none"
return query


def speak(audio):
    engine.say(audio)
    engine.runAndWait()

engine = pyttsx3.init('sapi5')
voices=engine.getProperty('voices')
engine.setProperty("voice",voices[0].id)
engine.setProperty("rate",140)
engine.setProperty("volume",1000)


if __name__ == "__main__":
    ard = serial.Serial('com10',9600)
    time.sleep(2)

    var = 'pt'

```

```
query=takeCommand().lower()
if 'tell me temperature' in query:
    var ='a'
    c=var.encode()
    speak("yeah..")
```

```
if var == 'a':
    ard.write(c)
    time.sleep(1)
    iny =(ard.readline())
    iny=iny.decode()
    iny=str(iny)
    print(iny)
    speak(str(iny)+"degree centigrade is the temperature!!")
```

```
if var == 'b':
    ard.write(c)
```