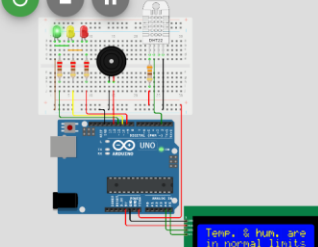


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DHT sensor.ino diagram.json libraries.txt Library Manager

```
1 #include <LiquidCrystal_I2C.h>
2 #include <DHT.h>;
3 LiquidCrystal_I2C lcd(0x27, 16, 2);
4 #define DHTPIN 2 //what pin we're connected to
5 #define DHTTYPE DHT22 //DHT 22 (AM2302)
6 DHT dht(DHTPIN, DHTTYPE); //Initialize DHT sensor for normal 16mhz Arduino
7 int chk;
8 float H; //Humidity value
9 float T; //Temperature value
10 int buzzer = 12;
11 void setup(){
12   lcd.init(); lcd.backlight(); dht.begin(); pinMode(buzzer, OUTPUT);
13   Serial.begin(9600); Serial.println("DHT22 sensor with Arduino Uno R3!");
14   pinMode(9, OUTPUT); pinMode(10, OUTPUT); pinMode(11, OUTPUT);
15 }
16 void loop(){
17   delay(2000);
18   H = dht.readHumidity(); T = dht.readTemperature();
19   Serial.print("Humidity: ");
20   Serial.print(H);
21   Serial.println(" %");
22   Serial.print("Temperature: ");
23   Serial.print(T);
24   Serial.println(" Celsius.\n");
25   if(H >= 70.00 && T >= 30.00){
26     digitalWrite(9, HIGH); digitalWrite(10, LOW); digitalWrite(11, LOW);
```

Simulation 01:29.310 100%



Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

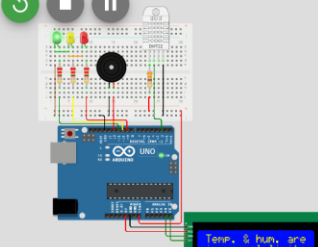
Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

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DHT sensor.ino diagram.json libraries.txt Library Manager

```
27   lcd.println(" Too warm! ");
28   lcd.setCursor(0, 1);
29   lcd.println(" Cool down! ");
30   lcd.setCursor(0, 0);
31   digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
32   delay(400);
33   digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
34   delay(400);
35   digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
36   delay(400);
37   digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
38   delay(400);
39 }else{
40   digitalWrite(9, LOW); digitalWrite(10, LOW); digitalWrite(11, HIGH);
41   lcd.println("Temp. & hum. are"); lcd.setCursor(0, 1);
42   lcd.println("in normal limits"); lcd.setCursor(0, 0);
43   digitalWrite(buzzer, 0);
44 }
45 if(H < 70.00 && T >= 30.00){
46   digitalWrite(9, LOW); digitalWrite(10, HIGH); digitalWrite(11, LOW);
47   lcd.println("Be ware! "); lcd.setCursor(0, 1);
48   lcd.println("Temp. too high! "); lcd.setCursor(0, 0);
49   digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
50   digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
51 }
52 if(H >= 70.00 && T < 30.00){
```

Simulation 01:39.718 99%



Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

WOKWI

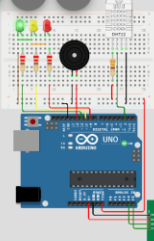
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DHT sensor.ino

```
48 lcd.println("Temp. too high! "); lcd.setCursor(0, 0);
49 digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
50 digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
51 }
52 if(H >= 70.00 && T < 30.00){
53 digitalWrite(9, LOW); digitalWrite(10, HIGH); digitalWrite(11, LOW);
54 lcd.println("Be ware! "); lcd.setCursor(0, 1);
55 lcd.println("Hum. too high! "); lcd.setCursor(0, 0);
56 digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
57 digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
58 }
59 }
60 }
```

Simulation

01:45.663 100%



Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

Humidity: 9.50 %;  
Temperature: -25.10 Celsius.

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22:01  
12-05-2023