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```
75    then it will show on LCD „Be ware! Temp. too high” or
76    humidity is higher than 70%, but
77    temperature is lower than 30 degrees Celsius, then
78    it will show on LCD „Be ware! Hum. too high”*/
79    if(H < 70.00 && T >= 30.00){
80      digitalWrite(9, LOW);  digitalWrite(10, HIGH);  digitalWrite(11, LOW);
81      lcd.println("Be ware!          ");  lcd.setCursor(0, 1);
82      lcd.println("Temp. too high! ");  lcd.setCursor(0, 0);
83      digitalWrite(buzzer, 1); tone(buzzer, 400, 400);  delay(400);
84      digitalWrite(buzzer, 0); tone(buzzer, 400, 400);  delay(400);
85    }
86    if(H >= 70.00 && T < 30.00){
87      digitalWrite(9, LOW);  digitalWrite(10, HIGH);  digitalWrite(11, LOW);
88      lcd.println("Be ware!          ");  lcd.setCursor(0, 1);
89      lcd.println("Hum. too high!  ");  lcd.setCursor(0, 0);
90      digitalWrite(buzzer, 1); tone(buzzer, 400, 400);  delay(400);
91      digitalWrite(buzzer, 0); tone(buzzer, 400, 400);  delay(400);
92    }
93  }
94
```

```
    digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
    delay(400);
    digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
    delay(400);
  }else{
  /*If humidity is lower than 70% &
  temperature is lower than 30 degrees Celsius
  then it will show on LCD „Temp. & hum. are in normal limits”*/
    digitalWrite(9, LOW);  digitalWrite(10, LOW);  digitalWrite(11, HIGH);
    lcd.println("Temp. & hum. are");  lcd.setCursor(0, 1);
    lcd.println("in normal limits");  lcd.setCursor(0, 0);
    digitalWrite(buzzer, 0);
  }

  /*If either humidity is lower than 70%, but
  temperature is higher than 30 degrees Celsius,
  then it will show on LCD „Be ware! Temp. too high” or
  humidity is higher than 70%, but
  temperature is lower than 30 degrees Celsius, then
  it will show on LCD „Be ware! Hum. too high”*/
  if(H < 70.00 && T >= 30.00){
    digitalWrite(9, LOW);  digitalWrite(10, HIGH);  digitalWrite(11, LOW);
    lcd.println("Be ware!          ");  lcd.setCursor(0, 1);
    lcd.println("Temp. too high! ");  lcd.setCursor(0, 0);
    digitalWrite(buzzer, 1); tone(buzzer, 400, 400);  delay(400);
    digitalWrite(buzzer, 0); tone(buzzer, 400, 400);  delay(400);
  }
  if(H >= 70.00 && T < 30.00){
    digitalWrite(9, LOW);  digitalWrite(10, HIGH);  digitalWrite(11, LOW);
    lcd.println("Be ware!          ");  lcd.setCursor(0, 1);
```

```
30
31  void loop(){
32    delay(2000);
33    //Read data and store it to variables hum and temp
34    H = dht.readHumidity();  T = dht.readTemperature();
35
36    //Print temp and humidity values to serial monitor
37    Serial.print("Humidity: ");
38    Serial.print(H);
39    Serial.println(" %; ");
40    Serial.print("Temperature: ");
41    Serial.print(T);
42    Serial.println(" Celsius.\n");
43
44    /*If humidity is higher than 70% &
45    temperature is higher than 30 degrees Celsius
46    then it will show on LCD „Too warm! Cool down!"*/
47    if(H >= 70.00 && T >= 30.00){
48      digitalWrite(9, HIGH);  digitalWrite(10, LOW);  digitalWrite(11, LOW);
49
50      lcd.println("   Too warm!    ");
51      lcd.setCursor(0, 1);
52      lcd.println("   Cool down!   ");
53      lcd.setCursor(0, 0);
54
55      digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
56      delay(400);
57      digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
58      delay(400);
59      digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
```

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```
/* How to use the DHT-22 sensor with Arduino uno.
   Is a temperature and humidity sensor!
   See it in original form:
   https://create.arduino.cc/projecthub/mafzal/temperature-monitoring-with-dht
*/
//LCD I2C library:
#include <LiquidCrystal_I2C.h>
//DHT22 sensor library:
#include <DHT.h>;
//LCD I2C address 0x27, 16 column and 2 rows!
LiquidCrystal_I2C lcd(0x27, 16, 2);

//Constants:
#define DHTPIN 2          //what pin we're connected to
#define DHTTYPE DHT22     //DHT 22  (AM2302)
DHT dht(DHTPIN, DHTTYPE); //Initialize DHT sensor for normal 16mhz Arduino
//Variables:
int chk;
float H; //Humidity value
float T; //Temperature value
int buzzer = 12;

//Initialize LCD, DHT22 sensor and buzzer:
void setup(){
  lcd.init(); lcd.backlight();  dht.begin();  pinMode(buzzer, OUTPUT);
  //Print some text in Serial Monitor
  Serial.begin(9600);  Serial.println("DHT22 sensor with Arduino Uno R3!");
  pinMode(9, OUTPUT);  pinMode(10, OUTPUT);  pinMode(11, OUTPUT);
}

```

```
gitalWrite(11, LOW);
1);
0);
elay(400);
elay(400);


gitalWrite(11, LOW);
1);
0);
elay(400);
elay(400);
```