```
DHT sensor.ino
               diagram.json
                             libraries.txt
                                       Library Manager
 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);
          digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
 84
 85
        if(H >= 70.00 && T < 30.00){
 86
          digitalWrite(9, LOW); digitalWrite(10, HIGH); digitalWrite(11, LOW);
 87
          lcd.println("Be ware! "); lcd.setCursor(0, 1);
 88
          lcd.println("Hum. too high! "); lcd.setCursor(0, 0);
 89
          digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
 90
          digitalWrite(buzzer, 0); tone(buzzer, 400, 400);
 91
                                                            delay(400);
 92
```

94

```
digitalWrite(buzzer, 1); tone(buzzer, 900, 100);
59
         delay(400);
60
         digitalWrite(buzzer, 0); tone(buzzer, 900, 100);
61
62
         delay(400);
       }else{
63
       /*If humidity is lower than 70% &
64
       temperature is lower than 30 degrees Celsius
65
       then it will show on LCD "Temp. & hum. are in normal limits"*/
66
         digitalWrite(9, LOW); digitalWrite(10, LOW); digitalWrite(11, HIGH);
67
         lcd.println("Temp. & hum. are"); lcd.setCursor(0, 1);
68
         lcd.println("in normal limits"); lcd.setCursor(0, 0);
69
         digitalWrite(buzzer, 0);
70
                                              T
71
       }
72
       /*If either humidity is lower than 70%, but
73
       temperature is higher than 30 degrees Celsius,
74
       then it will show on LCD "Be ware! Temp. too high" or
75
       humidity is higher than 70%, but
76
       temperature is lower than 30 degrees Celsius, then
77
78
       it will show on LCD "Be ware! Hum. too high"*/
       if(H < 70.00 && T >= 30.00){
79
         digitalWrite(9, LOW); digitalWrite(10, HIGH); digitalWrite(11, LOW);
         lcd.println("Be ware!
81
                                     "); lcd.setCursor(0, 1);
         lcd.println("Temp. too high! "); lcd.setCursor(0, 0);
82
         digitalWrite(buzzer, 1); tone(buzzer, 400, 400); delay(400);
         digitalWrite(buzzer, 0); tone(buzzer, 400, 400); delay(400);
84
       if(H >= 70.00 && T < 30.00){
         digitalWhite(9, LOW); digitalWhite(10, HIGH); digitalWhite(11, LOW);
                                      "); lcd.setCursor(0, 1);
         lcd.orintin("Be ware!
```















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

```
diagram.json libraries.txt Library Manager
DHT sensor.ino
       /* How to use the DHT-22 sensor with Arduino uno.
  1
          Is a temperature and humidity sensor!
  2
          See it in original form:
  3
          https://create.arduino.cc/projecthub/mafzal/temperature-monitoring-with-dh
  4
  5
       //LCD I2C library:
  6
       #include <LiquidCrystal I2C.h>
  7
       //DHT22 sensor library:
  8
       #include <DHT.h>;
  9
       //LCD I2C address 0x27, 16 column and 2 rows!
  10
       LiquidCrystal I2C lcd(0x27, 16, 2);
  11
  12
  13
       //Constants:
  14
       #define DHTPIN 2
                                 //what pin we're connected to
       #define DHTTYPE DHT22 //DHT 22 (AM2302)
  15
       DHT dht(DHTPIN, DHTTYPE); //Initialize DHT sensor for normal 16mhz Arduino
  16
       //Variables:
  17
  18
       int chk:
       float H; //Humidity value
  19
       float T; //Temperature value
  20
       int buzzer = 12;
  21
  22
  23
       //Initialize LCD, DHT22 sensor and buzzer:
       void setup(){
  24
         lcd.init(); lcd.backlight(); dht.begin(); pinMode(buzzer, OUTPUT);
  25
  26
         Serial.begin(9600); Serial.println("DHT22 sensor with Arduino Uno R3!");
  27
         pinMode(9, OUTPUT); plaMode(10, OUTPUT); plamode(11, OUTPUT);
```

