

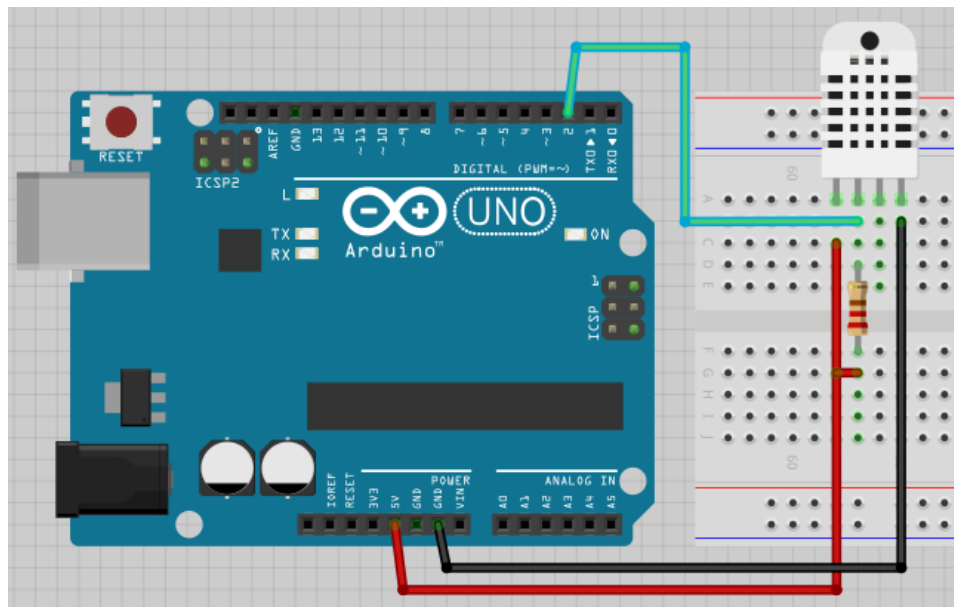
## DHT 22 SENSOR

Connecting to DHT22 sensor

They have four pins;

- VCC (3 to 5V power)
- Data out
- Not connected
- Ground

Simply ignore pin no 3 as we will not use it. Make sure to place a 10K resistor between VCC and the data pin.



Then load the sketch into arduino.ide. The output will be displayed on serial monitor. It will displayed reading of “humidity”, “temperature”, and “heat index”.



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The image shows a screenshot of an Arduino IDE. On the left is the serial monitor window, displaying a stream of sensor data. On the right is the code editor window, showing the source code for a sketch named 'DHTtester'.

**Serial Monitor Output:**

Humidity: %	Temperature: °C	Temperature: °F	Heat index: °C	Heat index: °F
36.70	27.40	81.32	26.99	80.58
36.60	27.30	81.14	26.91	80.44
39.10	27.30	81.14	27.04	80.67
39.70	27.30	81.14	27.07	80.73
48.00	27.40	81.32	27.67	81.80
53.80	27.40	81.32	28.09	82.57
55.40	27.60	81.68	28.46	83.23
91.70	30.30	86.54	42.51	108.52
94.70	30.40	86.72	44.03	111.25
96.60	29.30	84.74	39.73	103.51
96.40	30.40	86.72	44.76	112.58
96.40	29.60	85.28	41.41	106.54
95.10	28.20	82.76	35.86	96.56
93.00	27.80	82.04	34.05	93.30
71.80	27.80	82.04	30.51	86.91
66.00	27.90	82.22	29.98	85.97
60.50	27.90	82.22	29.36	84.84
50.60	27.80	82.04	28.28	82.90
43.50	27.80	82.04	27.73	81.91
42.00	27.80	82.04	27.62	81.72
42.90	27.80	82.04	27.69	81.83
41.10	27.80	82.04	27.56	81.62
39.40	27.80	82.04	27.45	81.42
40.40	27.80	82.04	27.52	81.53
38.20	27.70	81.86	27.30	81.14
37.90	27.60	81.68	27.20	80.97
37.80	27.50	81.50	27.12	80.82
37.80	27.50	81.50	27.12	80.82
39.80	27.50	81.50	27.23	81.02
39.40	27.60	81.68	27.29	81.12

**Code Editor Content:**

```
DHTtester
// Compute heat index in Fahrenheit (the default)
float hif = dht.computeHeatIndex(f, h);
// Compute heat index in Celsius (isFahrenheit = false)
float hic = dht.computeHeatIndex(t, h, false);

Serial.print("Humidity: ");
Serial.print(h);
Serial.print(" %\t");
Serial.print("Temperature: ");
Serial.print(t);
Serial.print(" *C ");
Serial.print(f);
Serial.print(" *F\t");
Serial.print("Heat index: ");
Serial.print(hic);
Serial.print(" *C ");
Serial.print(hif);
Serial.println(" *F");
}
```

Done uploading.  
WARNING: Spurious .github folder in 'DHT sensor library' library  
Sketch uses 7,212 bytes (22%) of program storage space. Maximum is 32,768 bytes.  
Global variables use 318 bytes (15%) of dynamic memory, leaving 1,682 bytes free. Maximum is 2,048 bytes.

You should see the temperature and humidity. You can see changes occur by breathing onto the sensor which should increase the humidity.