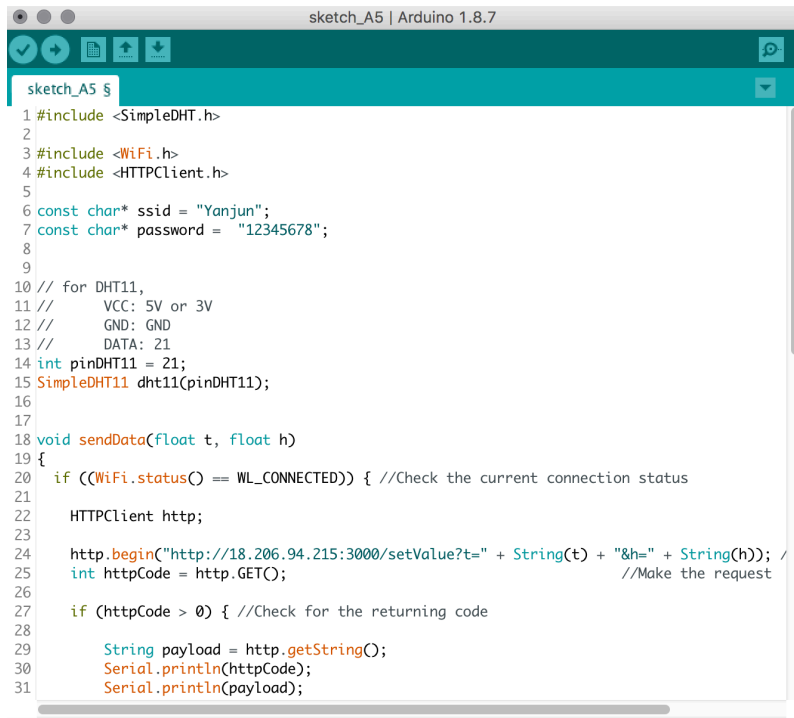


### Step-1:

Connect the watch to laptop and ready to run the code by changing the ssid and password. And make sure the 24th line http:// is following your address, where you can find by going AWS ec2.



```
sketch_A5 | Arduino 1.8.7
sketch_A5 $
1 #include <SimpleDHT.h>
2
3 #include <WiFi.h>
4 #include <HTTPClient.h>
5
6 const char* ssid = "YanJun";
7 const char* password = "12345678";
8
9
10 // for DHT11,
11 //   VCC: 5V or 3V
12 //   GND: GND
13 //   DATA: 21
14 int pinDHT11 = 21;
15 SimpleDHT11 dht11(pinDHT11);
16
17
18 void sendData(float t, float h)
19 {
20   if ((WiFi.status() == WL_CONNECTED)) { //Check the current connection status
21
22     HTTPClient http;
23
24     http.begin("http://18.206.94.215:3000/setValue?t=" + String(t) + "&h=" + String(h)); //
25     int httpCode = http.GET(); //Make the request
26
27     if (httpCode > 0) { //Check for the returning code
28
29       String payload = http.getString();
30       Serial.println(httpCode);
31       Serial.println(payload);
32     }
33   }
34 }
```

### Step-2,

Make sure the computer is connecting to “asu”



### Step 3

Then, you should open the terminal to run the following code.

\$ ssh -i ~/Downloads/AME394F2019.pem [ubuntu@Your Ubuntu's ip address, 18.206.94.215](#)

Then you will need to CD to your ubuntu's AME394Fall2019 folder

```
$ cd AME394Fall2019/cloudLogDHT11
```

```
~/AME394Fall2019/cloudLogDHT11$ git pull
```

```
~/AME394Fall2019/cloudLogDHT11$ npm install mongodb
```

```
~/AME394Fall2019$ cd
```

```
~$ rm -rf AME394Fall2019/
```

```
~$ git clone https://github.com/tejaswigowda/AME394Fall2019.git
```

```
$ cd AME394Fall2019/cloudLogDHT11/
```

```
AME394Fall2019/cloudLogDHT11$ node server.js
```

```
AME394Fall2019/cloudLogDHT11$ forever restartall
```

```
AME394Fall2019/cloudLogDHT11$ vi server.js
```

```
AME394Fall2019/cloudLogDHT11$ forever stopall
```

```
AME394Fall2019/cloudLogDHT11$ forever start server.js
```

```
AME394Fall2019/cloudLogDHT11$ forever stopall
```

```
AME394Fall2019/cloudLogDHT11$ node server.js
```

Control c to escape

```
AME394Fall2019/cloudLogDHT11$ npm install mongodb@2.2
```

```
AME394Fall2019/cloudLogDHT11$ node server.js
```

Or you can use forever start server.js

(But in the point, my mongo db never works before, and I cannot do “forever” too. But I listed for reference.

If you Mongo db works, please go open Mongo DB, and type you ip address as Localhost. the Prof number is default: 27017.

Mongo db allow you to create a database on git bash.

then on your ubuntu machine you can type: mongo. From here you can use commands such as db, show dbs, use <Data Base>, and other commands.

then you should see a database that is being received temperature and humidity data from sensor on the mongoddb compass.

There is a graph diagram which explain how the behind logic and how this tutorial is working.

