```
#include "DHT.h"
     #include <Wire.h>
 3
     #include <Adafruit_GFX.h>
     #include <Adafruit SH1106.h>
     #define DHTPIN 2
 7
     #define DHTTYPE DHT11
8
     DHT dht(DHTPIN, DHTTYPE);
9
     #define OLED RESET -1
10
     String Comment;
11
12
     Adafruit SH1106 display (OLED RESET);
13
14
     int ldrPin = A0;
15
     int ldrValue = 0;
16
17
     void setup() {
18
       Serial.begin (9600);
19
       dht.begin();
20
21
       display.begin(SH1106 SWITCHCAPVCC, 0x3C); // Initialize OLED
22
       display.clearDisplay();
23
       display.display();
24
25
       pinMode(ldrPin, INPUT);
26
     }
27
28
    void loop() {
29
       float h = dht.readHumidity();
30
       float t = dht.readTemperature();
31
       float f = dht.readTemperature(true);
32
33
       //simplified version of the heat index formula
       float feelsLikeC = t + (0.33 * (1.0 - (h / 100.0)) * (t - 30.0));
34
35
36
       if(feelsLikeC >= 32)
37
38
       Comment="It is hot today";
39
     }
40
       else if(feelsLikeC < 32)</pre>
41
     {
42
       Comment="The weather is okay";
43
44
45
       ldrValue = analogRead(ldrPin);
46
       float sunlight = map(ldrValue, 0, 1023, 0, 100);
47
       display.clearDisplay();
48
49
       display.setTextSize(1);
50
       display.setTextColor(WHITE);
51
       display.setCursor(0, 0);
52
       display.print("Humidity: ");
53
       display.print(h);
54
       display.print("%");
55
56
       display.setTextSize(1);
57
       display.setCursor(0, 10);
58
       display.print("Temperature: ");
59
       display.print(t);
60
       display.print("C");
61
62
       display.setTextSize(1);
63
       display.setCursor(0, 20);
64
       display.print("Temperature: ");
65
       display.print(f);
66
       display.print("F");
67
68
       display.setTextSize(1);
69
       display.setCursor(0, 30);
```

```
70
        display.print("Feels like: ");
        display.print(feelsLikeC);
71
72
        display.print("C");
73
        display.setTextSize(1);
display.setCursor(0, 40);
display.print("Light: ");
74
75
76
        display.print(map(ldrValue, 1023, 0, 0, 100)); //In my sensor at Minimum light value
77
        1023
        display.print("%");
78
79
80
        display.display();
81
        delay(1000);
82
     }
```