

Assignment 2

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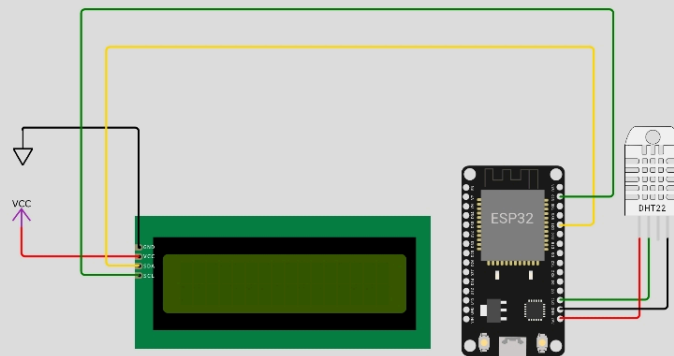
WOKWI



SIGN UP

Simulation

Code





Simulation

Code

esp32-dht22.ino

diagram.json

libraries.txt

Library Manager

```
1  #include "DHTesp.h"
2  #include<LiquidCrystal_I2C.h>
3
4  #define I2C_ADDR    0x27
5  #define LCD_COLUMNS 16
6  #define LCD_LINES  2
7
8  const int DHT_PIN = 15;
9
10 DHTesp dhtSensor;
11
12 LiquidCrystal_I2C lcd(I2C_ADDR, LCD_COLUMNS, LCD_LINES);
13
14 void setup() {
15
16     Serial.begin(115200);
17     dhtSensor.setup(DHT_PIN, DHTesp::DHT22);
18     lcd.init();
19     lcd.backlight();
20
21 }
22
23 void loop() {
24
25
26
27     TempAndHumidity data = dhtSensor.getTempAndHumidity();
28     Serial.println("Temp: " + String(data.temperature));
29     Serial.println("Humidity: " + String(data.humidity));
30     Serial.println("---");
31
32     lcd.setCursor(0, 0);
33     lcd.print("    Temp: " + String(data.temperature));
34     lcd.setCursor(0, 1);
35     lcd.print("Humidity: " + String(data.humidity));
36     lcd.print("Wowki Online IOT");
37
38     delay(1000);
39 }
```



Simulation

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Library Manager

```
9
10 DHTesp dhtSensor;
11
12 LiquidCrystal_I2C lcd(I2C_ADDR, LCD_COL
13
14 void setup() {
15
16     Serial.begin(115200);
17     dhtSensor.setup(DHT_PIN, DHTesp::DHT2
18     lcd.init();
19     lcd.backlight();
20
21 }
22
23 void loop() {
24
25 }
26
27 TempAndHumitidy data = dhrSensor.getTen
28 Serial.println("Temp: " + String(data.
29 Serial.println("Humidity: " + String(c
30 Serial.println("---");
31
32 lcd.setCursor(0, 0);
33 lcd.print("    Temp: " + String(data.t
34 lcd.setCursor(0, 1);
35 lcd.print("Humidity: " +String(data.hun
36 lcd.print("Wowki Online IOT");
37
38 delay(1000);
39 }
```