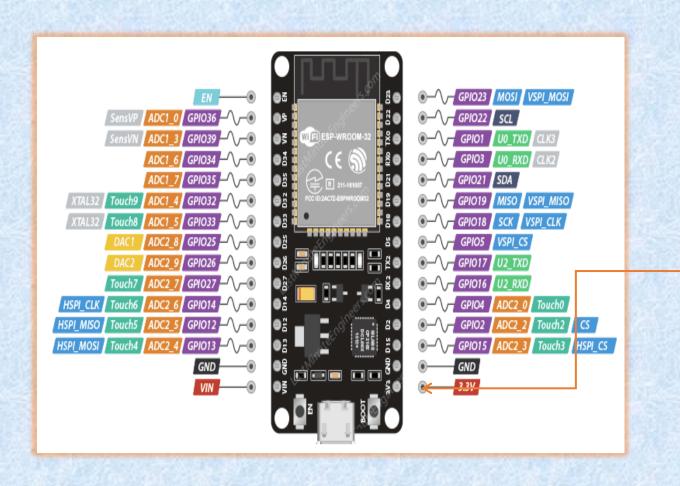


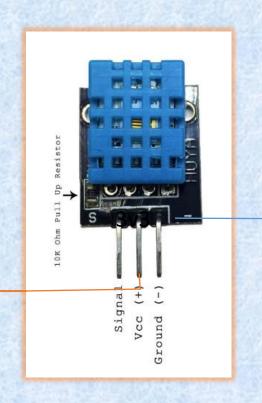
Crafting a Temperature and Humidity Monitoring System

LIST OF COMPONENTS:

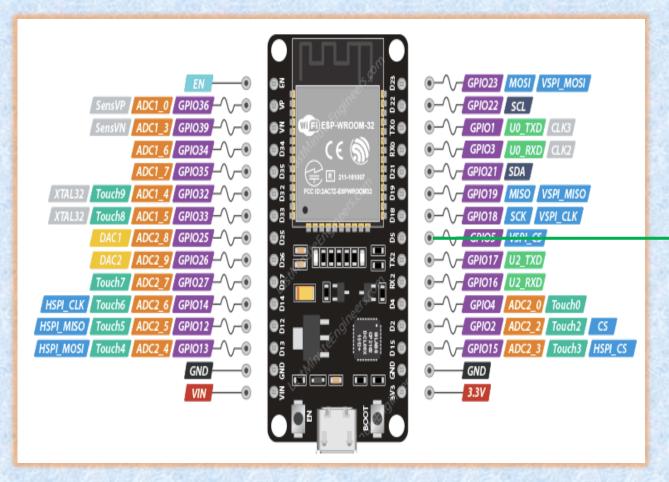
- 1. ESP32 MICROCONTROLLER
- 2. DHT11
- 3. LCD DISPLAY 16X2 I2C
- 4. JUMPER WIRES
- 5. BREAD BOARD

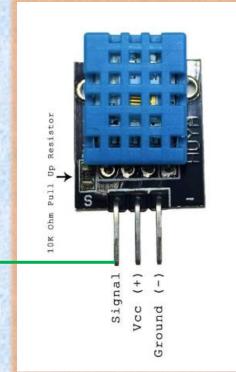
Circuit Diagram:-



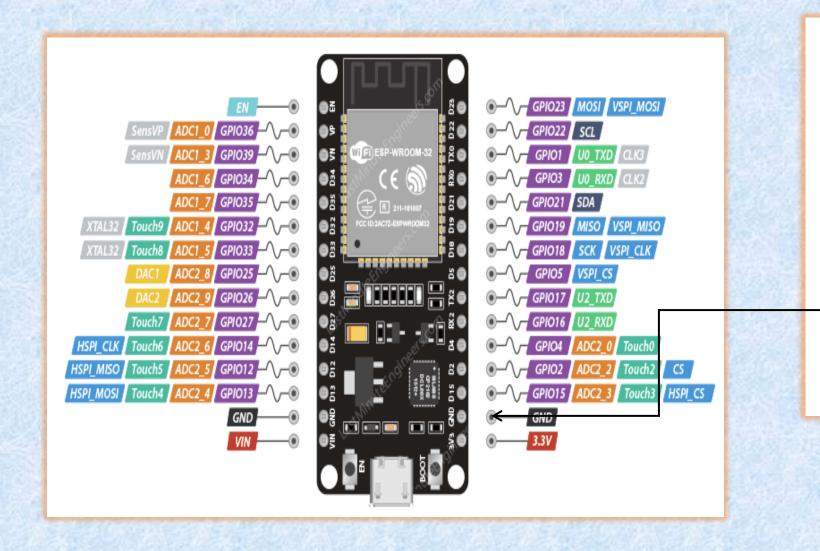


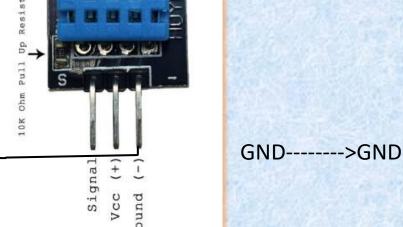
> VCC

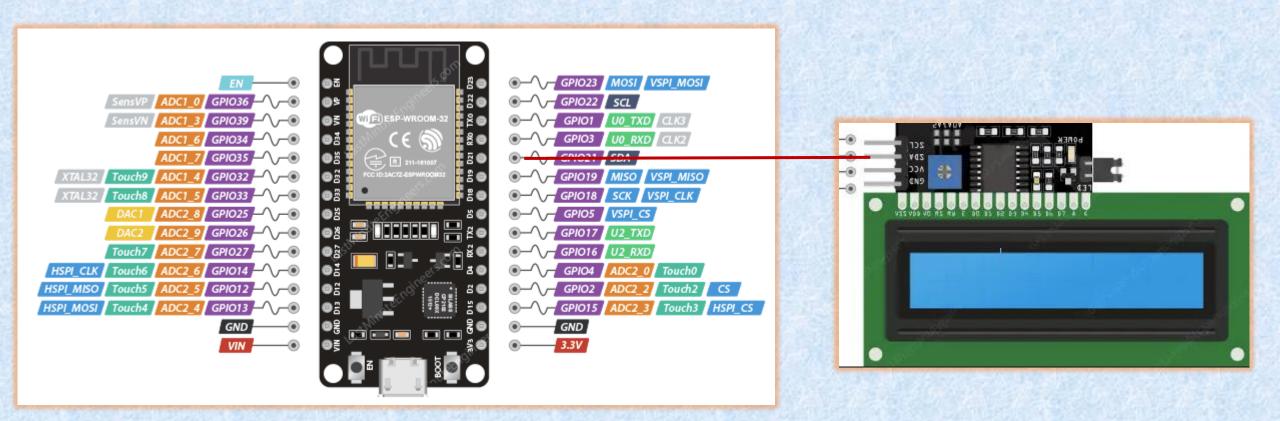




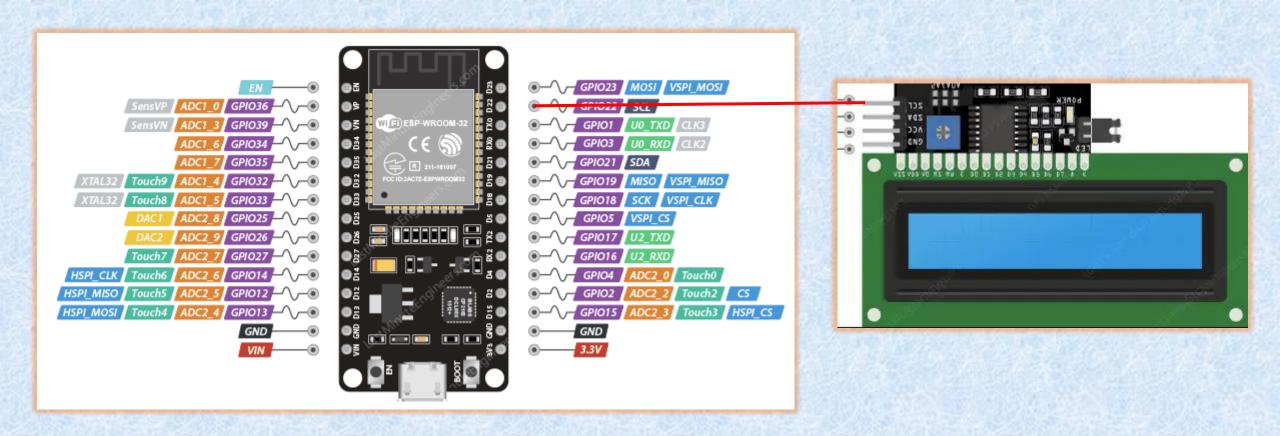
D5---->Signal (or) Data



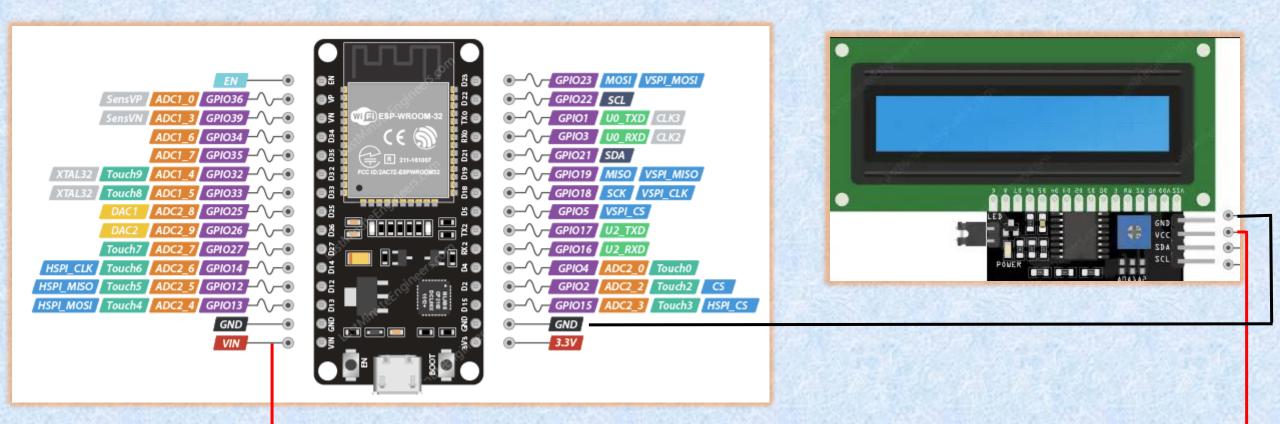




CONNECT SDA-D21



CONNECT SCL-D22



CONNECT VCC=VIN
CONNECT GND-GND

CONTINUE

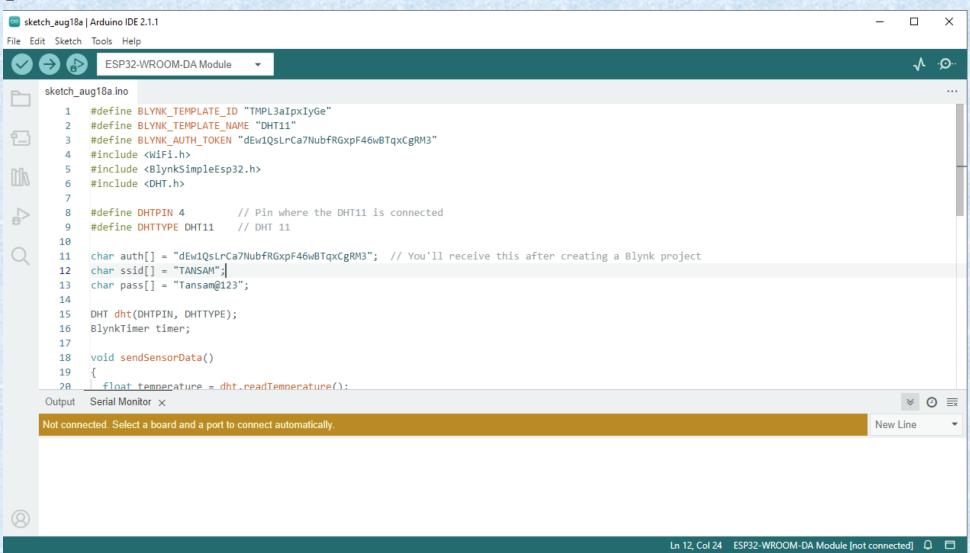
CODE:

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#include <DHT.h>
#define DHTPIN 5
#define DHTTYPE DHT11
DHT dht(DHTPIN, DHTTYPE);
LiquidCrystal_I2C lcd(0x27, 16, 2);
void setup() {
 Serial.begin(115200);
 dht.begin();
 lcd.init();
 lcd.backlight();
 lcd.setCursor(0, 0);
 lcd.print("Temperature:");
 lcd.setCursor(0, 1);
 lcd.print("Humidity:");
void loop() {
 delay(2000);
```

```
float temperature = dht.readTemperature();
float humidity = dht.readHumidity();
Serial.print("Temperature: ");
Serial.print(temperature);
Serial.println("°C");
Serial.print("Humidity: ");
Serial.print(humidity);
Serial.println(" %");
lcd.setCursor(13, 0);
lcd.print(" ");
lcd.setCursor(13, 0);
lcd.print(temperature);
lcd.setCursor(11, 1);
lcd.print(" ");
lcd.setCursor(11, 1);
lcd.print(humidity);
```

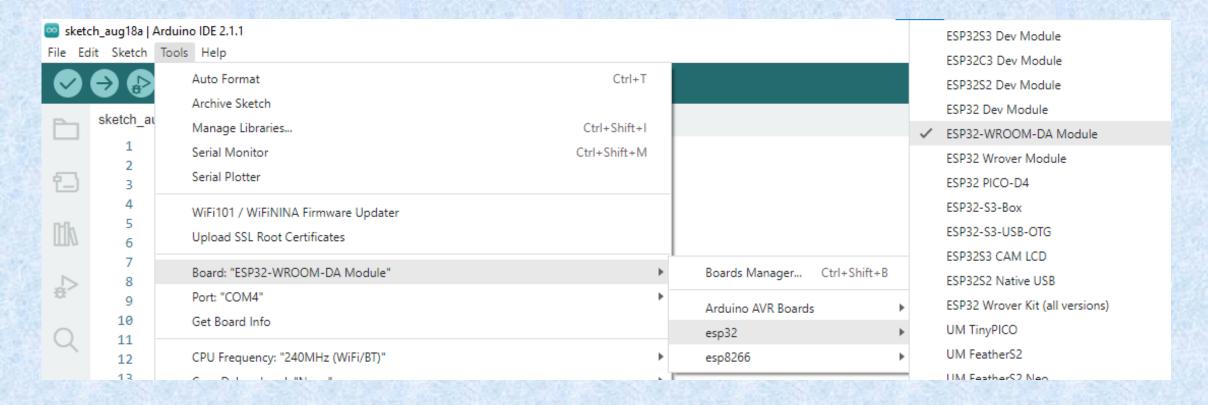
Step-1:-

Copy code paste in Arduino new Sketch



Step-2

Board---->esp32---->esp32-wroom-DA module



Step-3:Tools---->select your com

