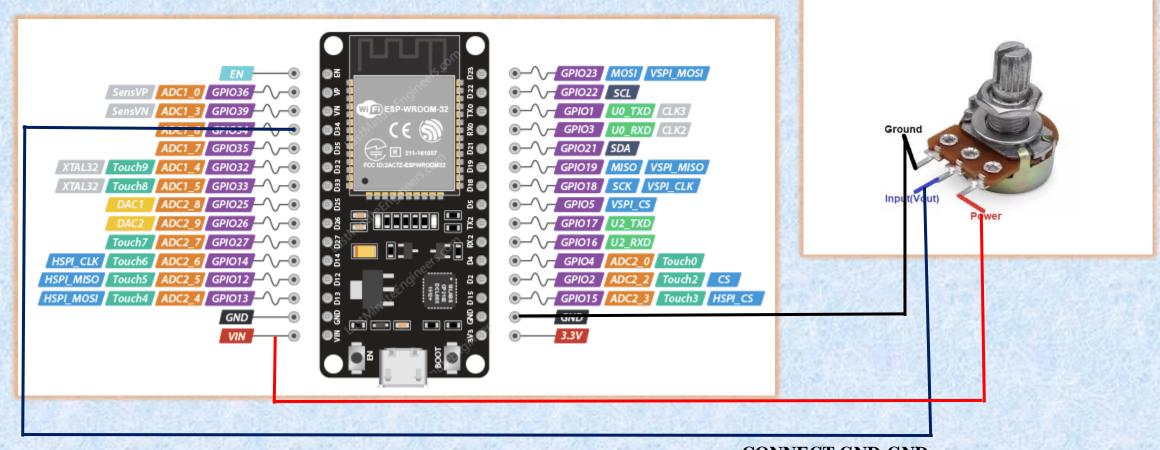


Unveiling Analog Input Reading Magic

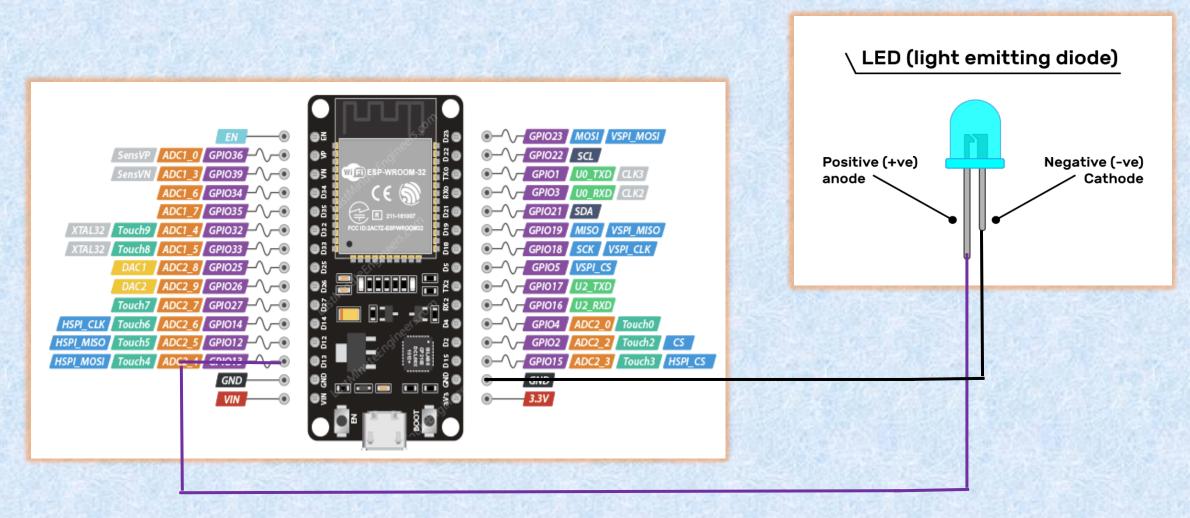
LIST OF COMPONENTS:

- 1. ESP32 MICROCONTROLLER
- 2. POTENTIOMETER
- 3. BREAD BOARD
- 4. LED
- 5. JUMPER WIRES

CIRCUIT DAIGRAM:



CONNECT GND-GND VOUT-D34 VCC-VIN



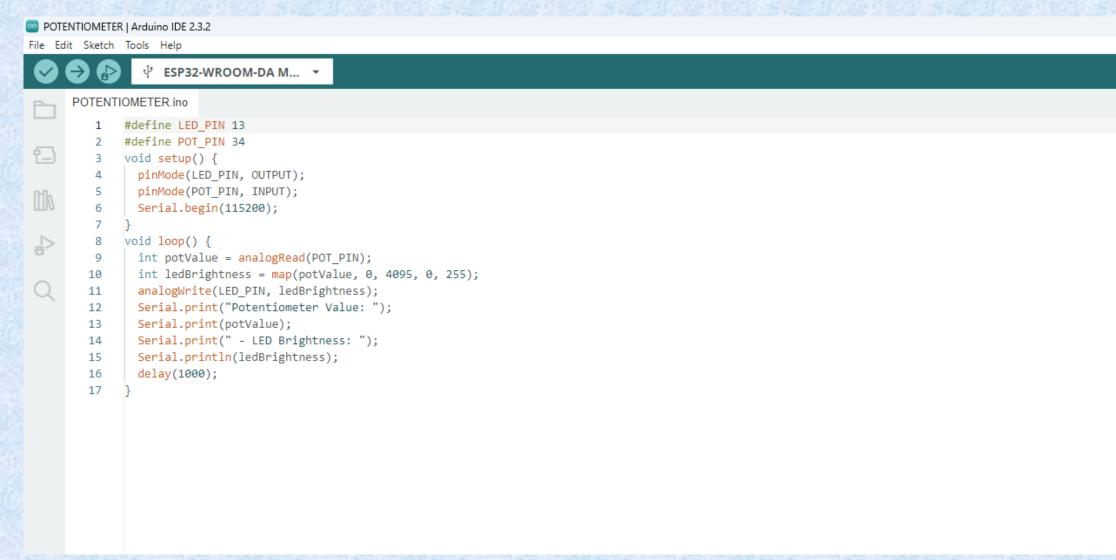
CONNECT ANODE-D13 CATHODE-GND

CODE:

```
#define LED_PIN 13
#define POT_PIN 34
void setup() {
 pinMode(LED_PIN, OUTPUT);
 pinMode(POT_PIN, INPUT);
 Serial.begin(115200);
void loop() {
 int potValue = analogRead(POT_PIN);
 int ledBrightness = map(potValue, 0, 4095, 0, 255);
 analogWrite(LED_PIN, ledBrightness);
 Serial.print("Potentiometer Value: ");
 Serial.print(potValue);
 Serial.print(" - LED Brightness: ");
 Serial.println(ledBrightness);
 delay(1000);
```

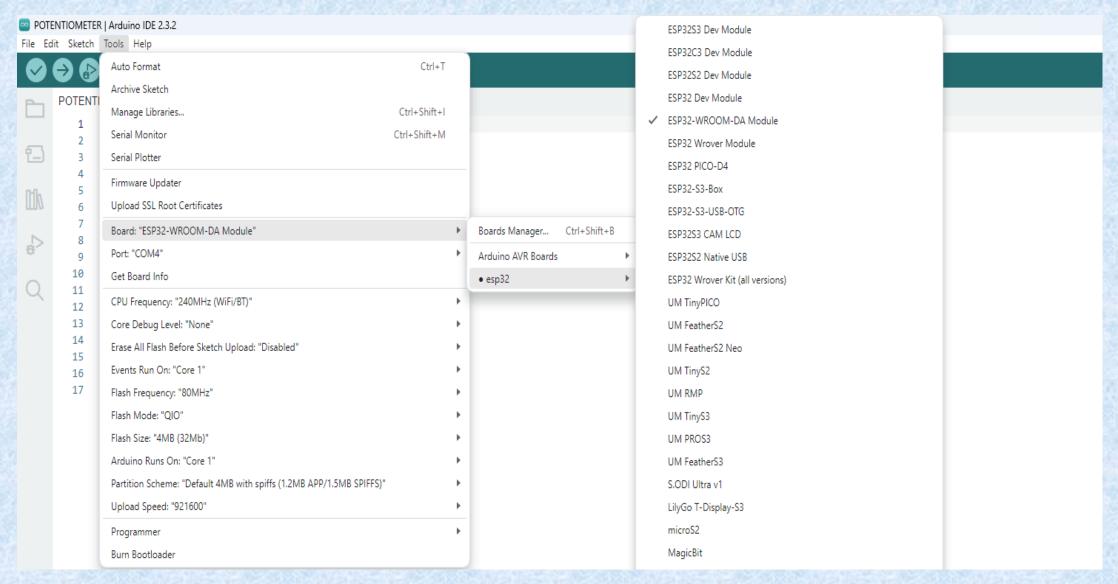
STEP 1:

Copy code paste in Arduino new Sketch



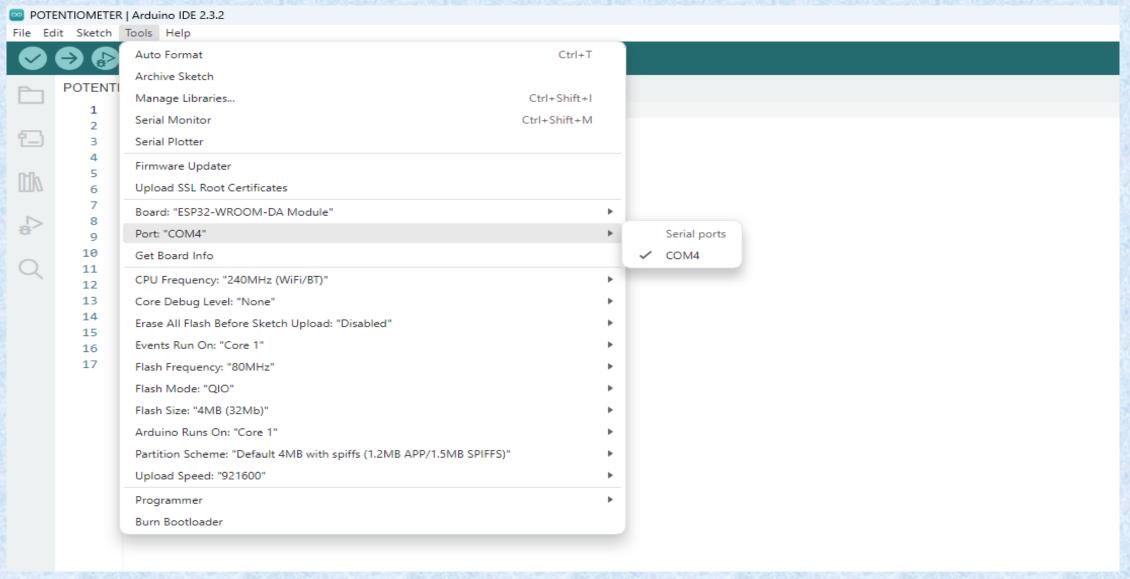
STEP 2:

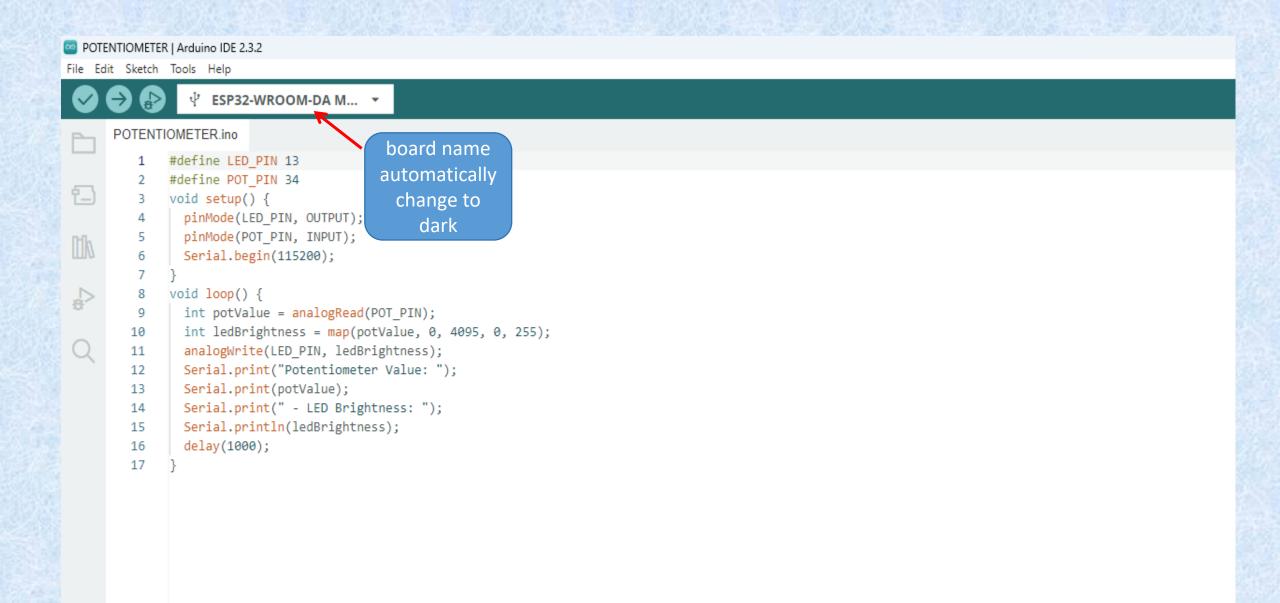
Board---->esp32---->esp32-wroom-DA module



STEP 3:

Tools---->select your com





OUTPUT:

When we upload the code the LED will adjusted using the potentiometer and we can see the potentiometer and the LED brightness value

