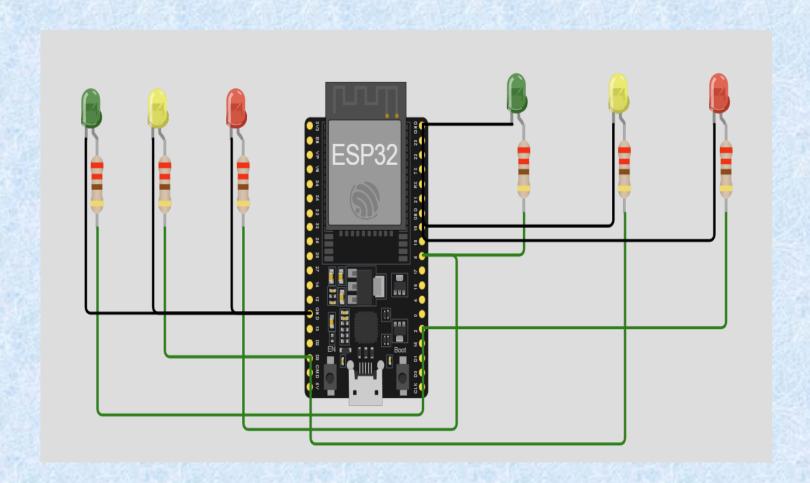


Crafting a Traffic Light System

LIST OF COMPONENTS:

- 1. ESP32 MICROCONTROLLER
- 2. LED'S(TWO WAY TRAFFIC SYSTEM)
- 3. BREAD BOARD
- 4. JUMPER WIRES

CIRCUIT DIAGRAM



CONNECT GREEN1&RED2-D2 CONNECT YELLOW1&YELLOW2-D3 CONNECT RED1&GREEN2-D5

CODE

```
const int GreenPin = 2;
const int YellowPin = 3;
const int RedPin = 5;
void setup() {
 pinMode(GreenPin, OUTPUT);
 pinMode(YellowPin, OUTPUT);
 pinMode(RedPin, OUTPUT);
void loop() {
 digitalWrite(GreenPin, HIGH);
 digitalWrite(YellowPin, LOW);
 digitalWrite(RedPin, LOW);
 delay(5000);
 digitalWrite(GreenPin, LOW);
 digitalWrite(YellowPin, HIGH);
 digitalWrite(RedPin, LOW);
```

CONTINUE

```
delay(1000);
  digitalWrite(GreenPin, LOW);
  digitalWrite(YellowPin, LOW);
  digitalWrite(RedPin, HIGH);
  delay(5000);
  digitalWrite(GreenPin, LOW);
  digitalWrite(YellowPin, HIGH);
  digitalWrite(RedPin, LOW);
  delay(1000);
}
```

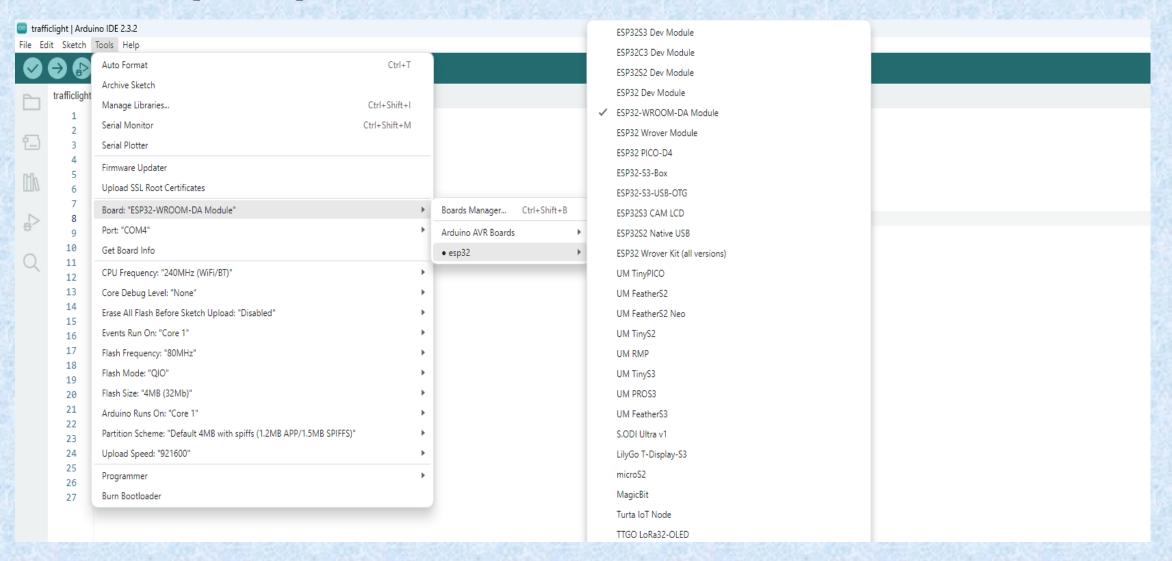
STEP 1

Copy code paste in Arduino new Sketch

material in the second File Edit Sketch Tools Help ESP32-WROOM-DA M... ▼ trafficlight.ino const int GreenPin = 2; const int YellowPin = 3; const int RedPin = 4; void setup() { pinMode(GreenPin, OUTPUT); 5 pinMode(YellowPin, OUTPUT); 6 7 pinMode(RedPin, OUTPUT); 8 9 void loop() { digitalWrite(GreenPin, HIGH); 10 digitalWrite(YellowPin, LOW); 11 digitalWrite(RedPin, LOW); 12 13 delay(5000); digitalWrite(GreenPin, LOW); 14 digitalWrite(YellowPin, HIGH); 15 digitalWrite(RedPin, LOW); 16 17 delay(1000); digitalWrite(GreenPin, LOW); 18 digitalWrite(YellowPin, LOW); 19 20 digitalWrite(RedPin, HIGH); delay(5000); 21 digitalWrite(GreenPin, LOW); 22 digitalWrite(YellowPin, HIGH); 23 digitalWrite(RedPin, LOW); 24 delay(1000); 25 26 27

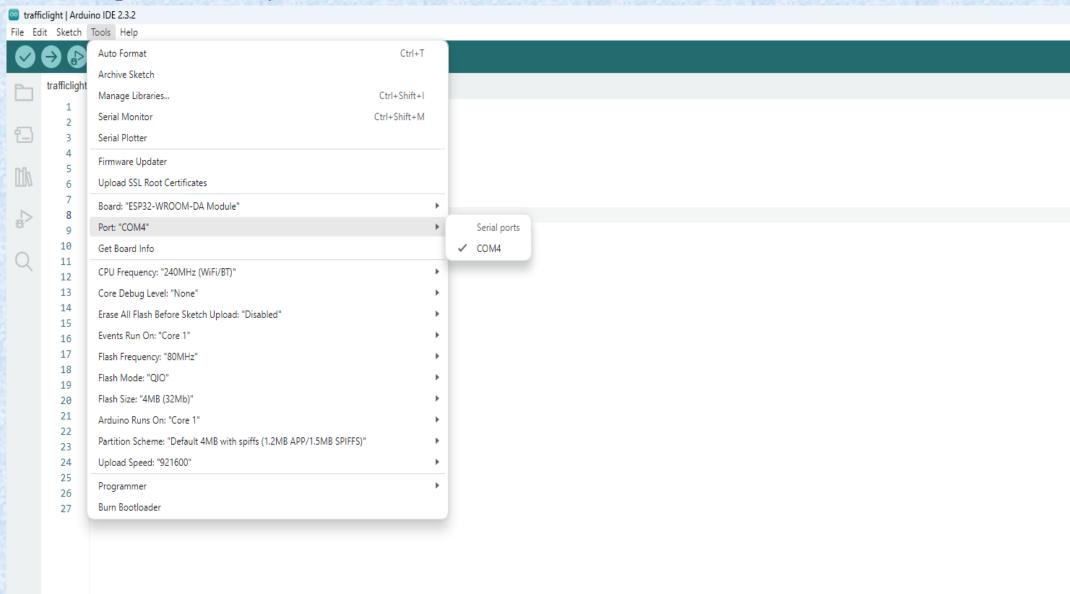
STEP 2:

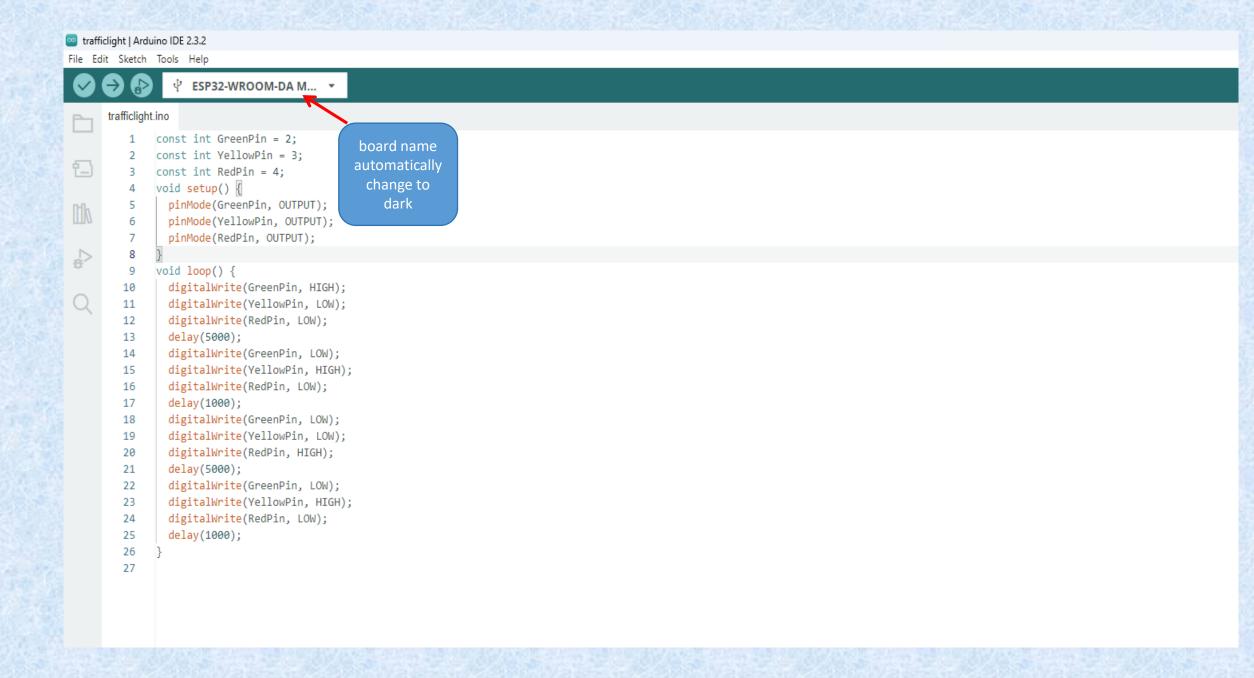
Board---->esp32---->esp32-wroom-DA module



STEP 3:

Tools---->select your com





```
mathematical in the second sec
 File Edit Sketch Tools Help

↓ ESP32-WROOM-DA M... ▼

                                                                                                                                            Verify
                   trafficlight.ino
                                         const int GreenPin = 2;
                                         const int YellowPin = 3;
                                          const int RedPin = 4;
                                          void setup() {
                                               pinMode(GreenPin, OUTPUT);
                             5
                              6
                                                pinMode(YellowPin, OUTPUT);
                                                pinMode(RedPin, OUTPUT);
                              7
                              8
                                          void loop() {
                              9
                                                digitalWrite(GreenPin, HIGH);
                          10
                                                digitalWrite(YellowPin, LOW);
                          11
                                                digitalWrite(RedPin, LOW);
                          12
                                                delay(5000);
                          13
                                                digitalWrite(GreenPin, LOW);
                          14
                                                digitalWrite(YellowPin, HIGH);
                          15
                                                digitalWrite(RedPin, LOW);
                          16
                                                delay(1000);
                          17
                                                digitalWrite(GreenPin, LOW);
                          18
                                                digitalWrite(YellowPin, LOW);
                          19
                                                digitalWrite(RedPin, HIGH);
                          20
                                                delay(5000);
                          21
                          22
                                                digitalWrite(GreenPin, LOW);
                          23
                                                digitalWrite(YellowPin, HIGH);
                          24
                                                digitalWrite(RedPin, LOW);
                          25
                                                 delay(1000);
                                                                                                                                                                                                                                                                                                   After Build the
                          26
                                                                                                                                                                                                                                                                                                 code the output
                          27
                                                                                                                                                                                                                                                                                                                like this
                   Output
                        Sketch uses 236893 bytes (18%) of program storage space. Maximum is 1310720 bytes.
                        Global variables use 21048 bytes (6%) of dynamic memory, leaving 306632 bytes for local variables. Maximum is 327680 bytes.
```

SAMPLE OUTPUT IMAGE FOR TWO WAY TRAFFIC:

