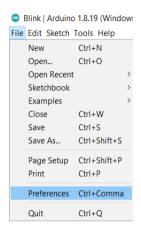
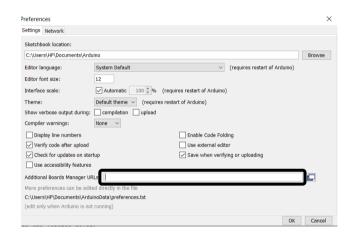
Task2: ESP-WROOM-32

Installing ESP32 Add-on in Arduino IDE step by step:

1. In your Arduino IDE, go to File> Preferences:

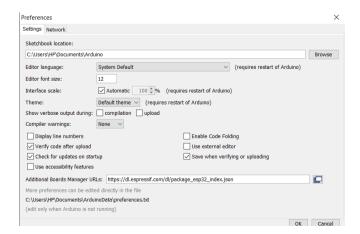


A window will appear like this:

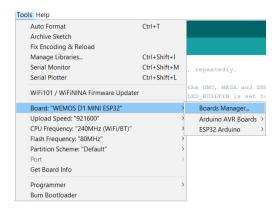


2. Enter the following into the "Additional Board Manager URLs" field:

https://dl.espressif.com/dl/package_esp32_index.json



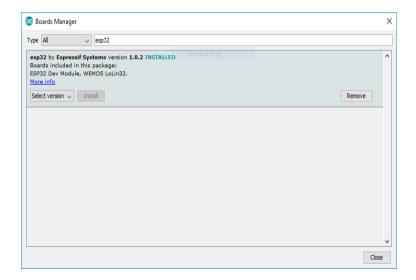
3. Open the Boards Manager. Go to Tools > Board > Boards





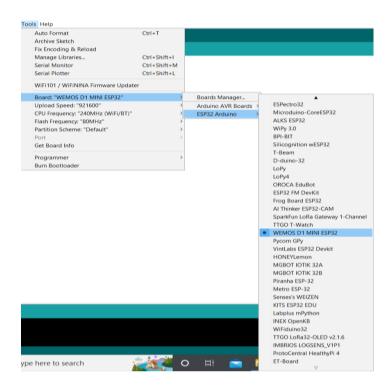
Now write above : **ESP32**

After that will appear in this way:



Testing the Installation

1. Select Board in Tools > Board menu: WEMOS D1 MINI ESP32



2.Open the following example under File > Examples > 01 Basic > Blink



3. A new sketch opens in your Arduino IDE:

```
Blink

Turns an LED on for one second, then off for one second, repeatedly.

Most Ardwinos have an on-board LED you can control. On the UNO, MEGA and ZERO it is attached to digital pin 13, on MKR1000 on pin 6. LED_BUILTIN is set to the correct LED pin independent of which board is used.

If you want to know what pin the on-board LED is connected to on your Ardwino model, check the Technical Specs of your board at: https://www.ardwino.cc/en/Main/Froducts

modified 8 May 2014
by Scott Pitzgorald modified 2 Sep 2016
by Arturo Guadalupi modified 8 Sep 2016
by Colby Newman

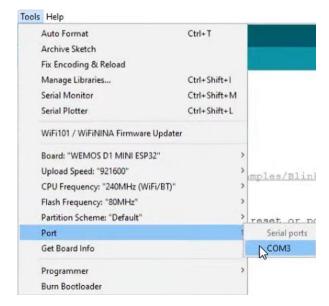
This example code is in the public domain.

https://www.ardwino.cc/en/Tutorial/BuiltInExamples/Blink
*/

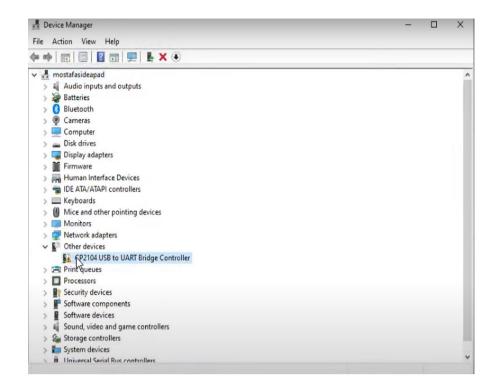
// the setup function runs once when you press reset or power the board void setup() {
    // initialize digital pin LED_BUILTIN as an output.
    pinMode(LED_BUILTIN, OUTFUT);
}

// the loop function runs over and over again forever void loop() {
    digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level) delay(1000); // wait for a second digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW delay(1000); // wait for a second
```

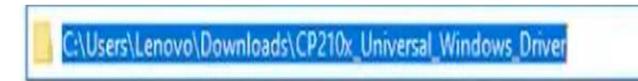
4. Select the port Tools > Port > COM3



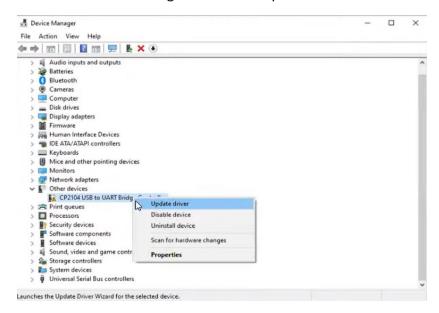
if you don't see the COM Port in your Arduino IDE, you need to install the <u>CP2104 USB to UART Bridge Controller</u>):



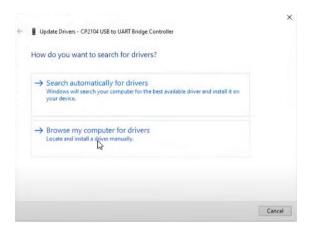
After install the <u>CP2104 USB to UART Bridge Controller</u> and open file will copy this link:



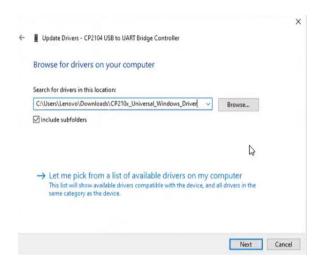
Go to the Device Manager and select Update driver as below:



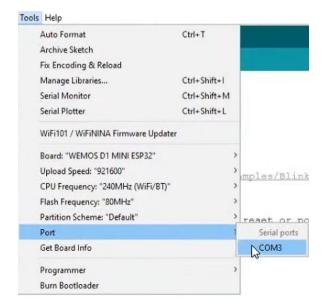
Select Browse my computer for drivers



Now paste the link your copy in this place:

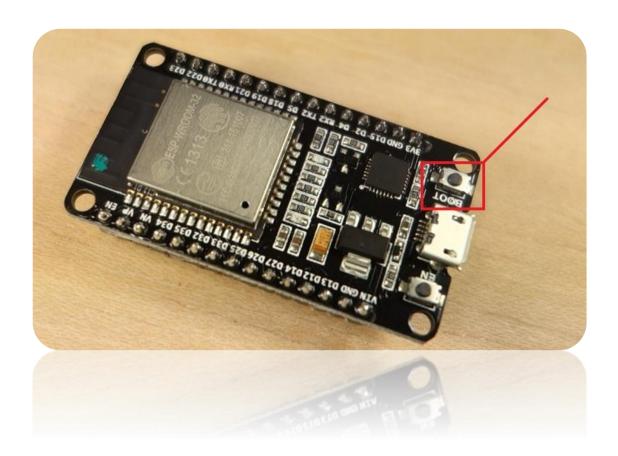


Back again to Arduino IDE and Select the port Tools > Port > COM3



Mayar Ayman Hamouh

Now you can see the light on ESP32 WROOM it will be work



Reference:

- 1-From lecture
- 2- https://randomnerdtutorials.com/installing-the-esp32-board-in-arduino-ide-