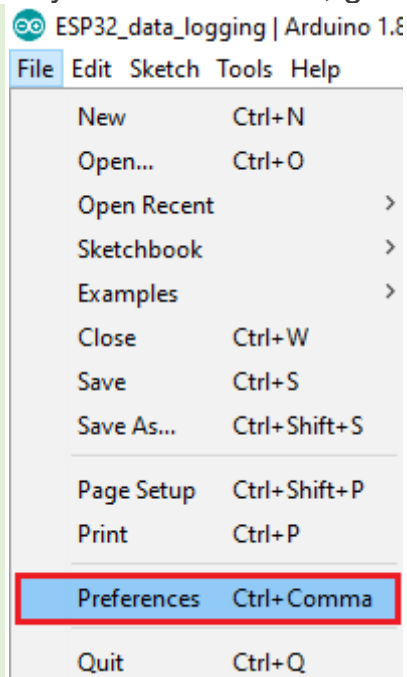


# Installing ESP32 Add-on in Arduino IDE

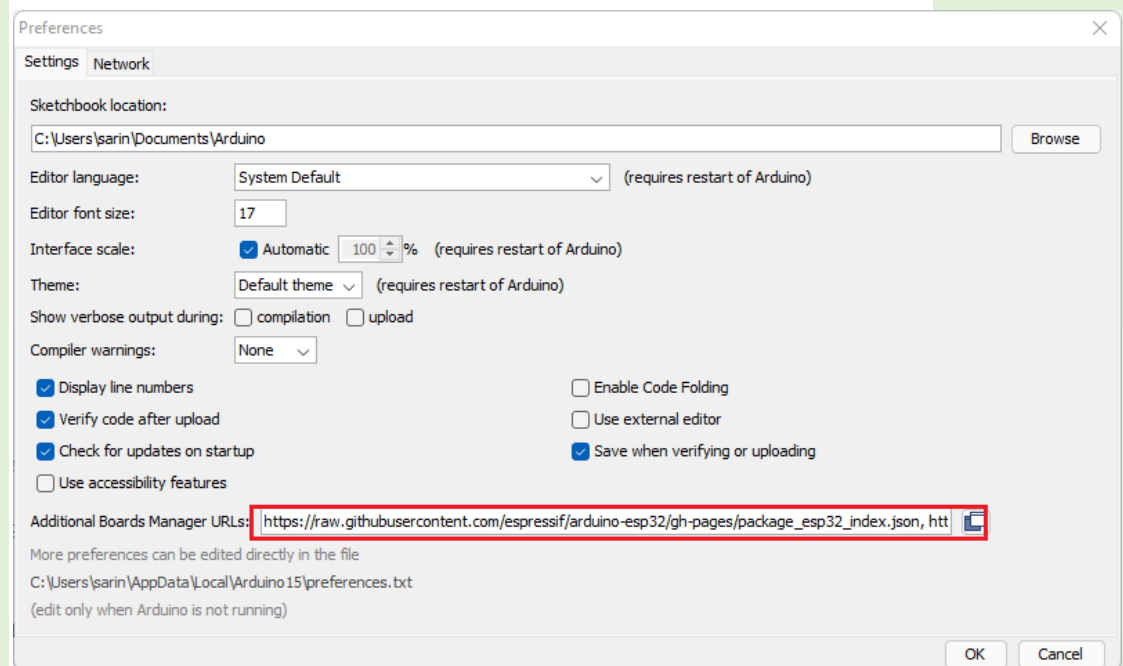
1. In your Arduino IDE, go to **File> Preferences**



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

[https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package\\_esp32\\_index.json](https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json)

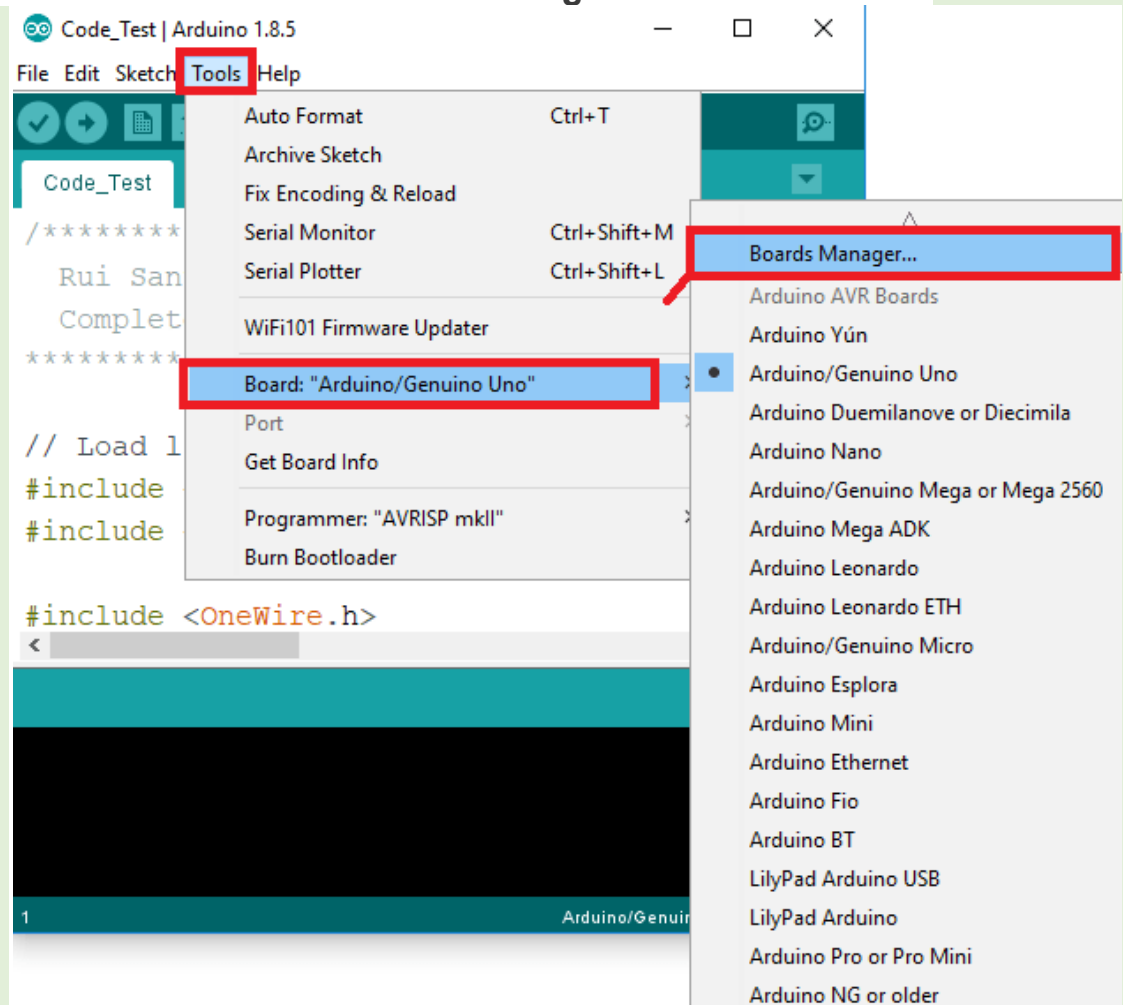
Then, click the “OK” button:



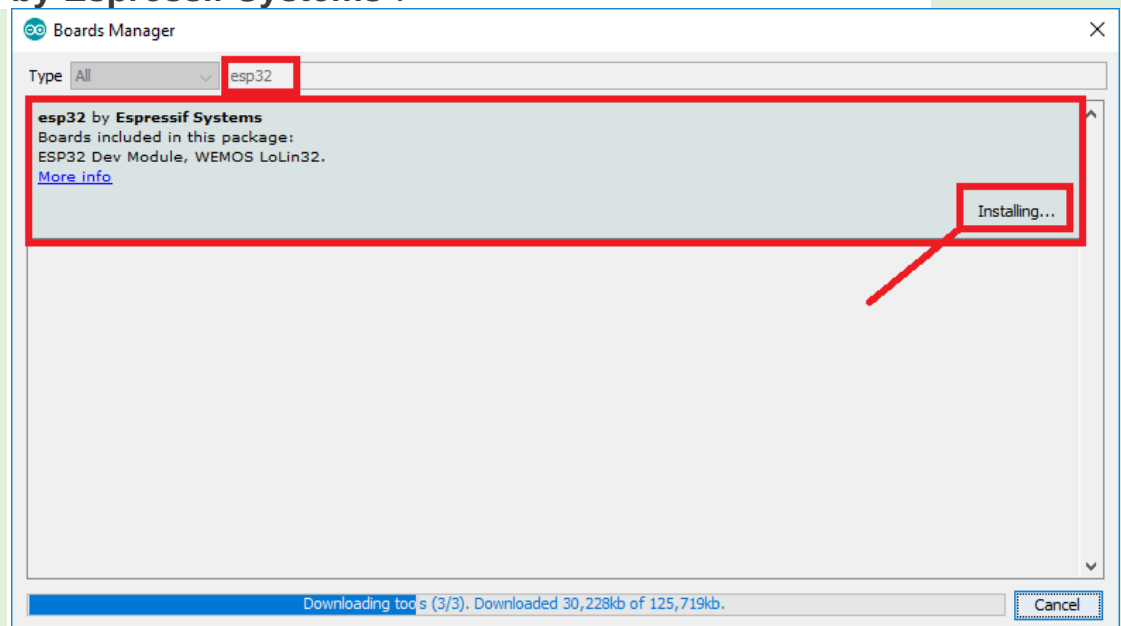
**Note:** if you already have the ESP8266 boards URL, you can separate the URLs with a comma as follows:

[https://raw.githubusercontent.com/esp8266/arduino-esp32/gh-pages/package\\_esp32\\_index.json](https://raw.githubusercontent.com/esp8266/arduino-esp32/gh-pages/package_esp32_index.json),  
[http://arduino.esp8266.com/stable/package\\_esp8266com\\_index.json](http://arduino.esp8266.com/stable/package_esp8266com_index.json)

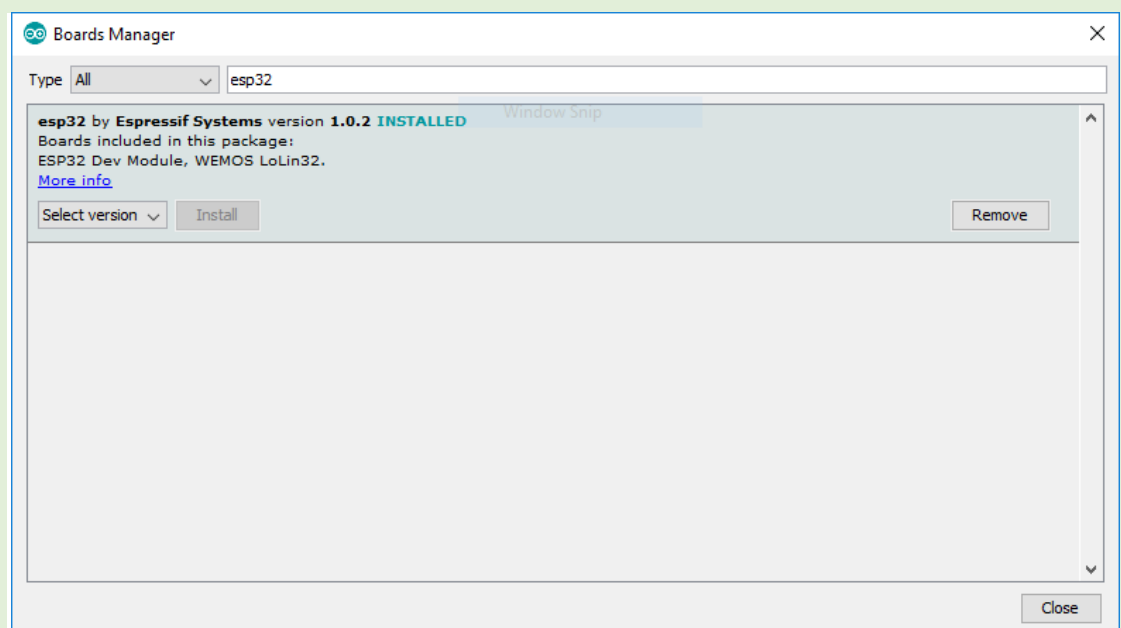
3. Open the Boards Manager. Go to **Tools > Board > Boards Manager...**



4. Search for **ESP32** and press install button for the “**ESP32 by Espressif Systems**”:

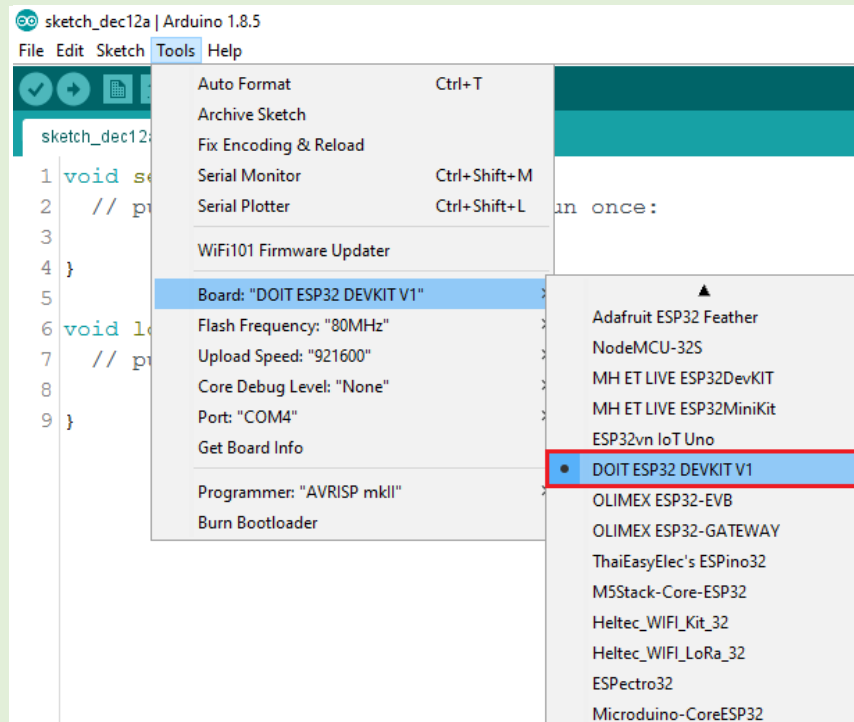


5. That's it. It should be installed after a few seconds.

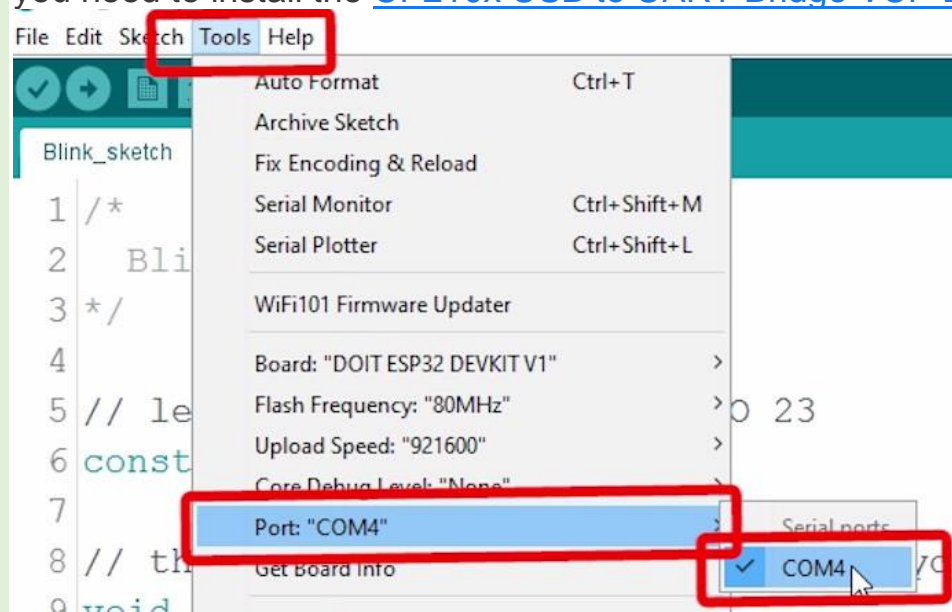


**Plug the ESP32 board to your computer. With your Arduino IDE open, follow these steps:**

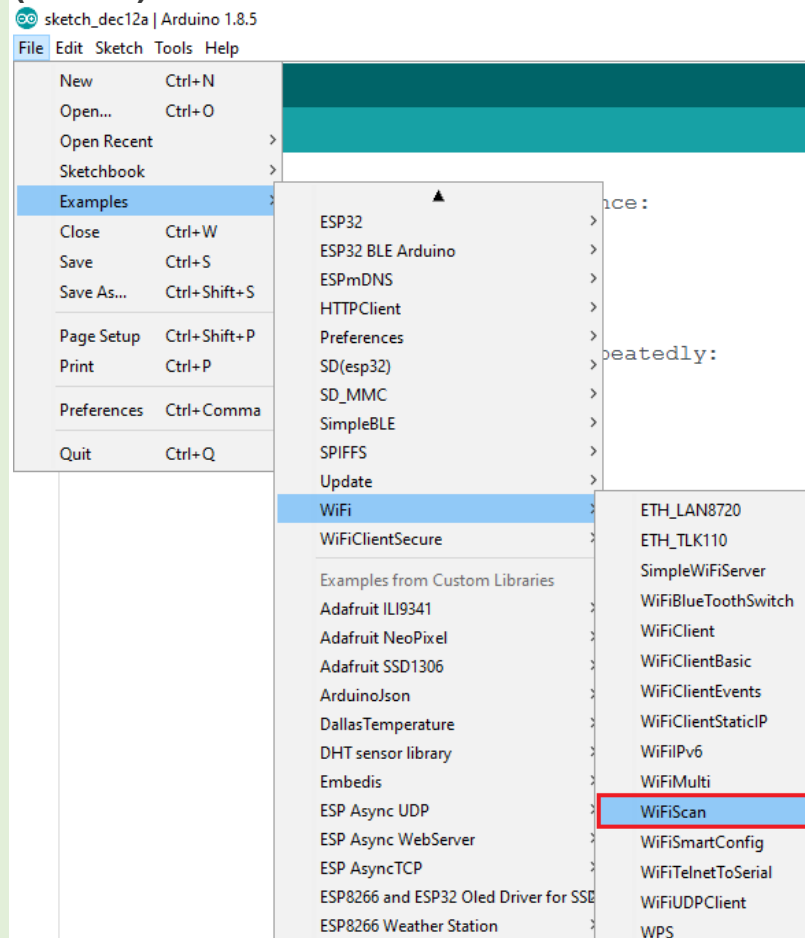
1. Select your Board in **Tools > Board** menu (in my case it's the **DOIT ESP32 DEVKIT V1**)



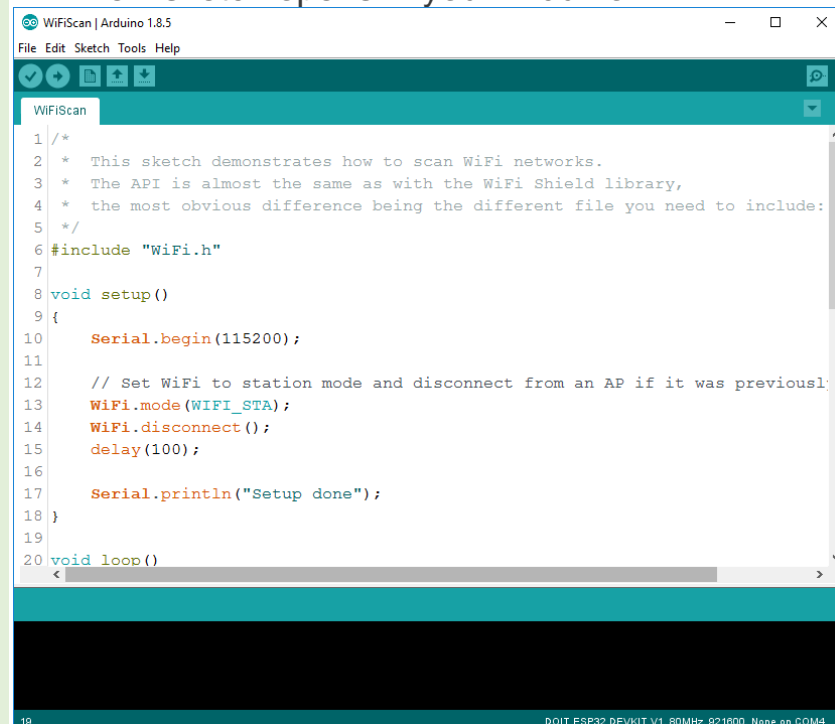
2. Select the Port (if you don't see the COM Port in your Arduino IDE, you need to install the [CP210x USB to UART Bridge VCP Drivers](#)):



### 3. Open the following example under **File > Examples > WiFi (ESP32) > WiFiScan**



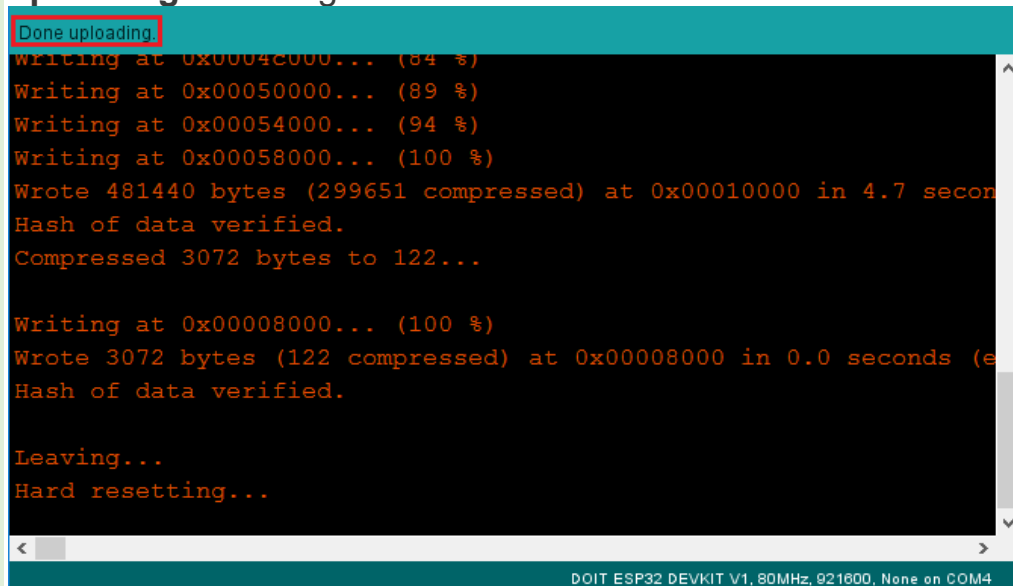
### 4. A new sketch opens in your Arduino IDE:



5. Press the **Upload** button in the Arduino IDE. Wait a few seconds while the code compiles and uploads to your board.



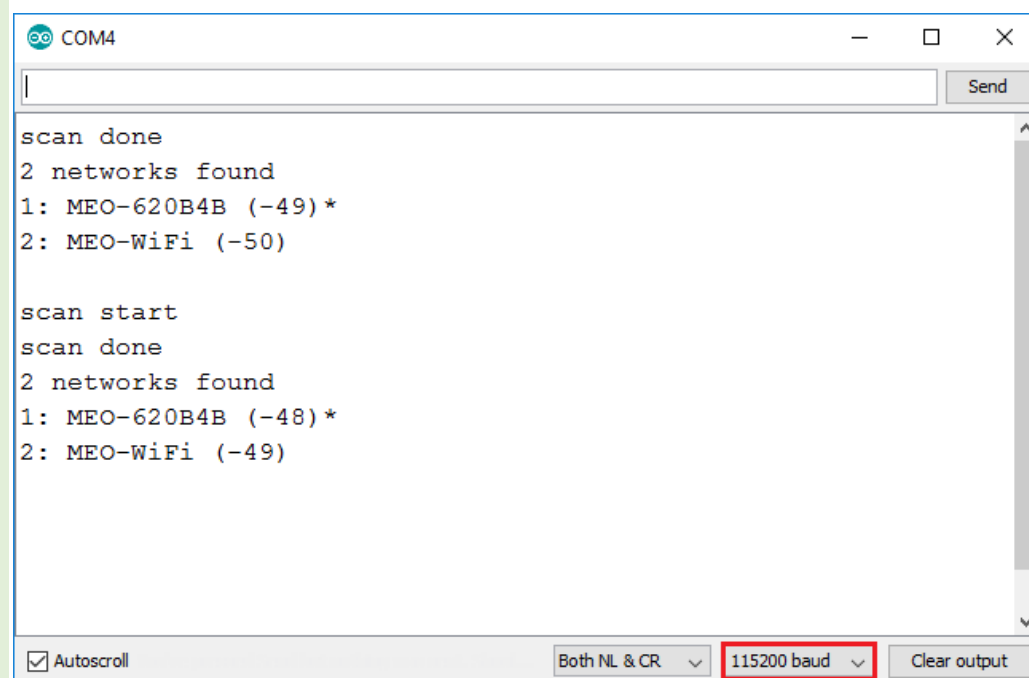
6. If everything went as expected, you should see a “**Done uploading.**” message.

A screenshot of the Arduino IDE Serial Monitor window. The title bar says 'COM4'. The text area shows the upload progress: 'Done uploading.' (highlighted with a red box), 'Writing at 0x00040000... (84 %)', 'Writing at 0x00050000... (89 %)', 'Writing at 0x00054000... (94 %)', 'Writing at 0x00058000... (100 %)', 'Wrote 481440 bytes (299651 compressed) at 0x00010000 in 4.7 seconds', 'Hash of data verified.', 'Compressed 3072 bytes to 122...', 'Writing at 0x00008000... (100 %)', 'Wrote 3072 bytes (122 compressed) at 0x00008000 in 0.0 seconds (e', 'Hash of data verified.', 'Leaving...', 'Hard resetting...'. The status bar at the bottom says 'DOIT ESP32 DEVKIT V1, 80MHz, 921600, None on COM4'.

7. Open the Arduino IDE Serial Monitor at a baud rate of 115200:



8. Press the ESP32 on-board **Enable** button and you should see the networks available near your ESP32:

A screenshot of the Arduino IDE Serial Monitor window. The title bar says 'COM4'. The text area shows the network scan results: 'scan done', '2 networks found', '1: MEO-620B4B (-49) \*', '2: MEO-WiFi (-50)', 'scan start', 'scan done', '2 networks found', '1: MEO-620B4B (-48) \*', '2: MEO-WiFi (-49)'. The status bar at the bottom has 'Autoscroll' checked, 'Both NL & CR' selected, '115200 baud' (highlighted with a red box) selected, and a 'Clear output' button.