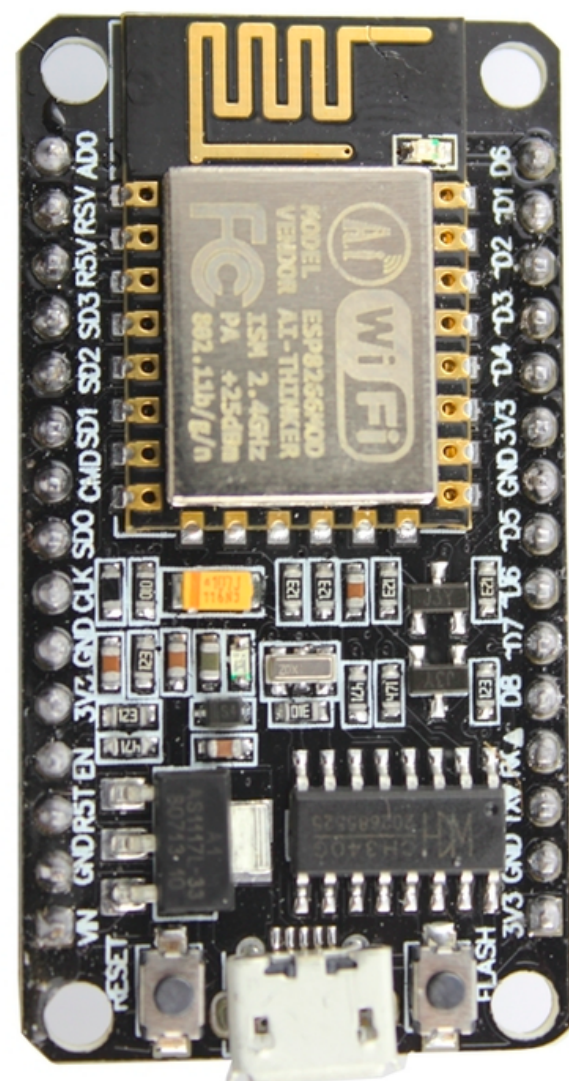


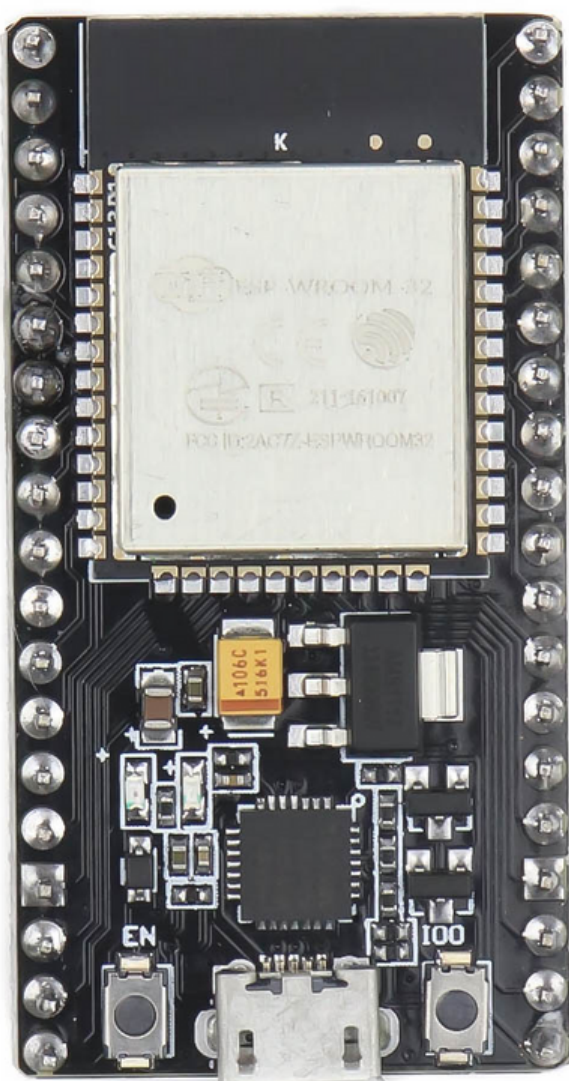
VS

ESP32

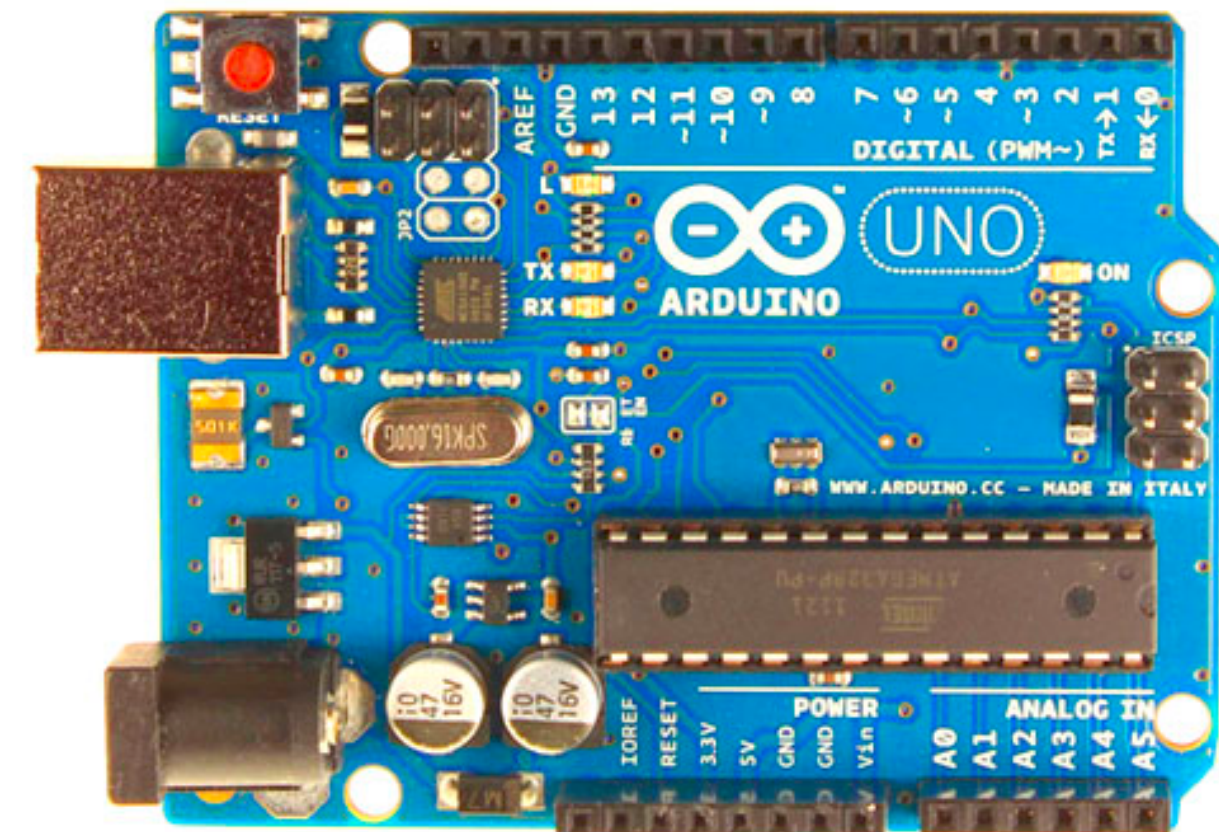
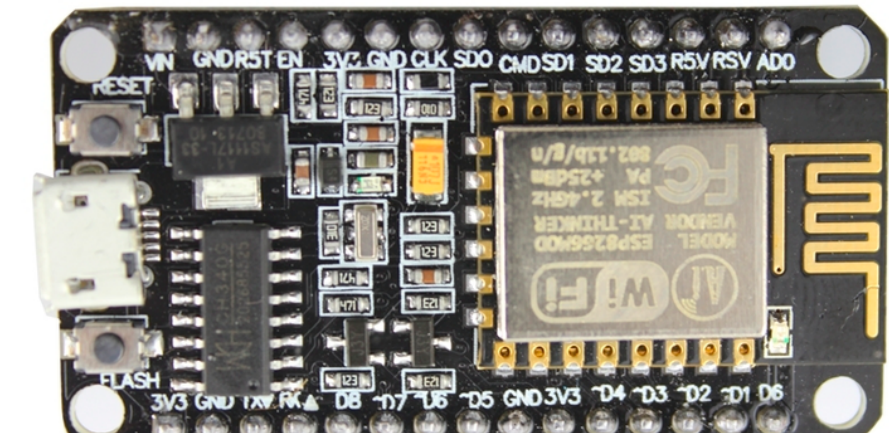
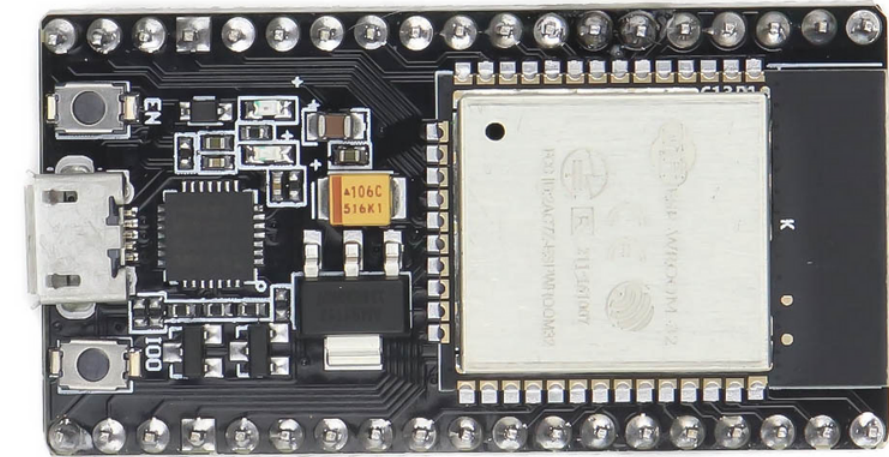
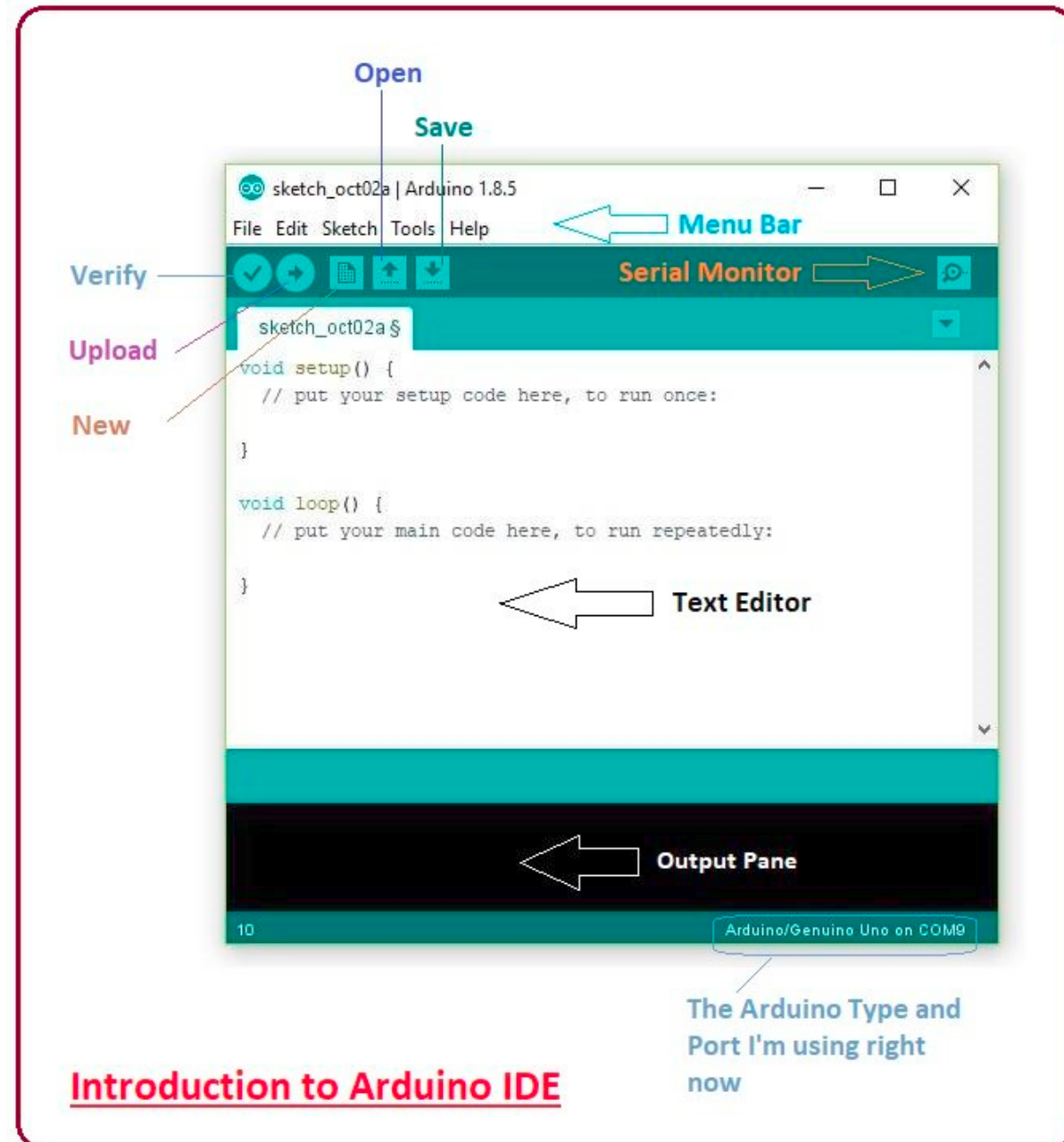
ESP8266



	ESP8266	ESP32
MCU	Xtensa Single-core 32-bit L106	Xtensa Dual-Core 32-bit LX6 with 600 DMIPS
802.11 b/g/n Wi-Fi	HT20	HT40
Bluetooth	No	Bluetooth 4.2 and BLE
Typical Frequency	80 MHz	160 MHz
SRAM	No	Yes
Flash	No	Yes
GPIO	17	36
Hardware /Software PWM	None / 8 channels	None / 16 channels
SPI/I2C/I2S/UART	2/1/2/2	4/2/2/2
ADC	10-bit	12-bit
CAN	No	Yes
Ethernet MAC Interface	No	Yes
Touch Sensor	No	Yes
Temperature Sensor	No	Yes
Hall effect sensor	No	Yes
Working Temperature	-40°C to 125°C	-40°C to 125°C

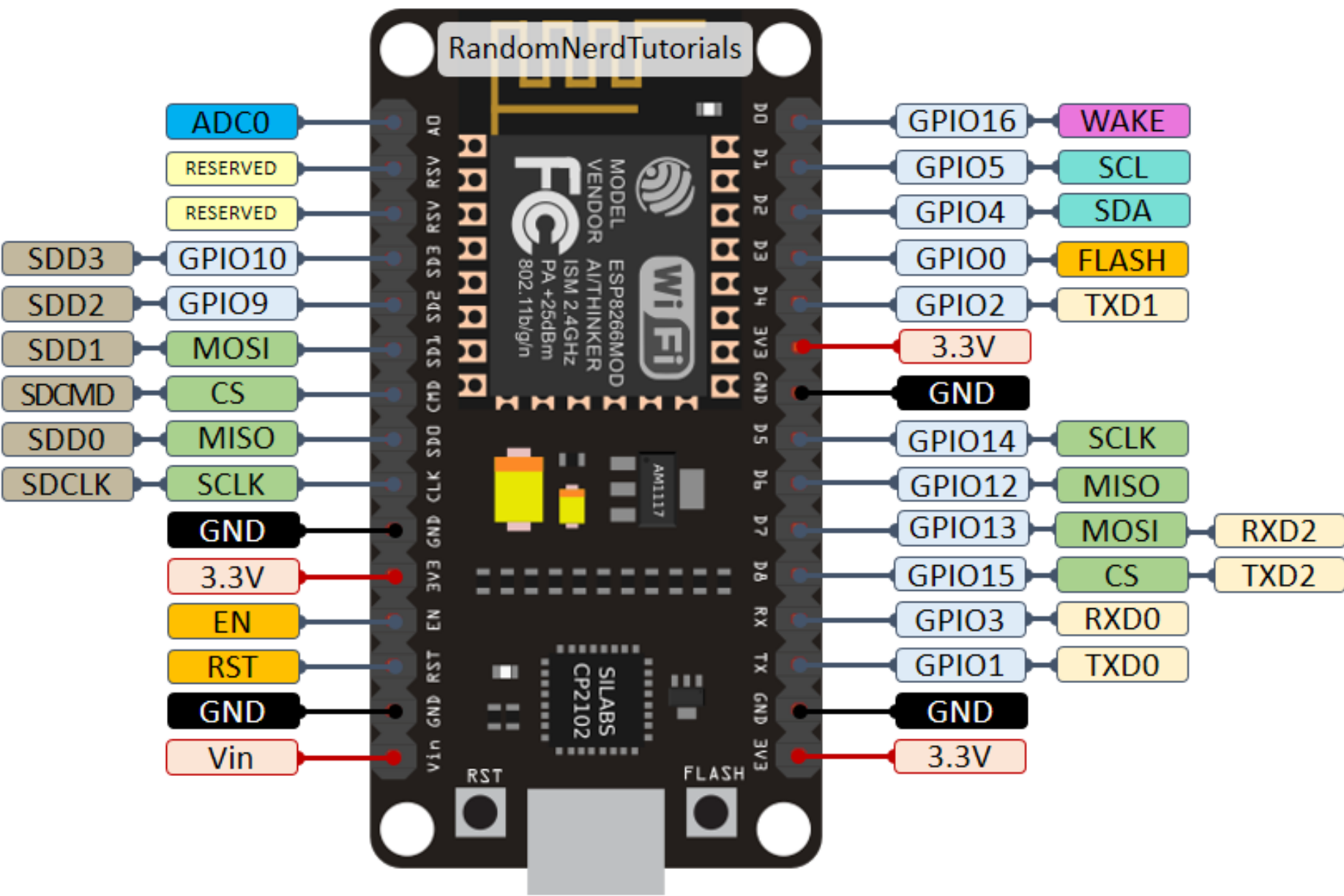


2- software



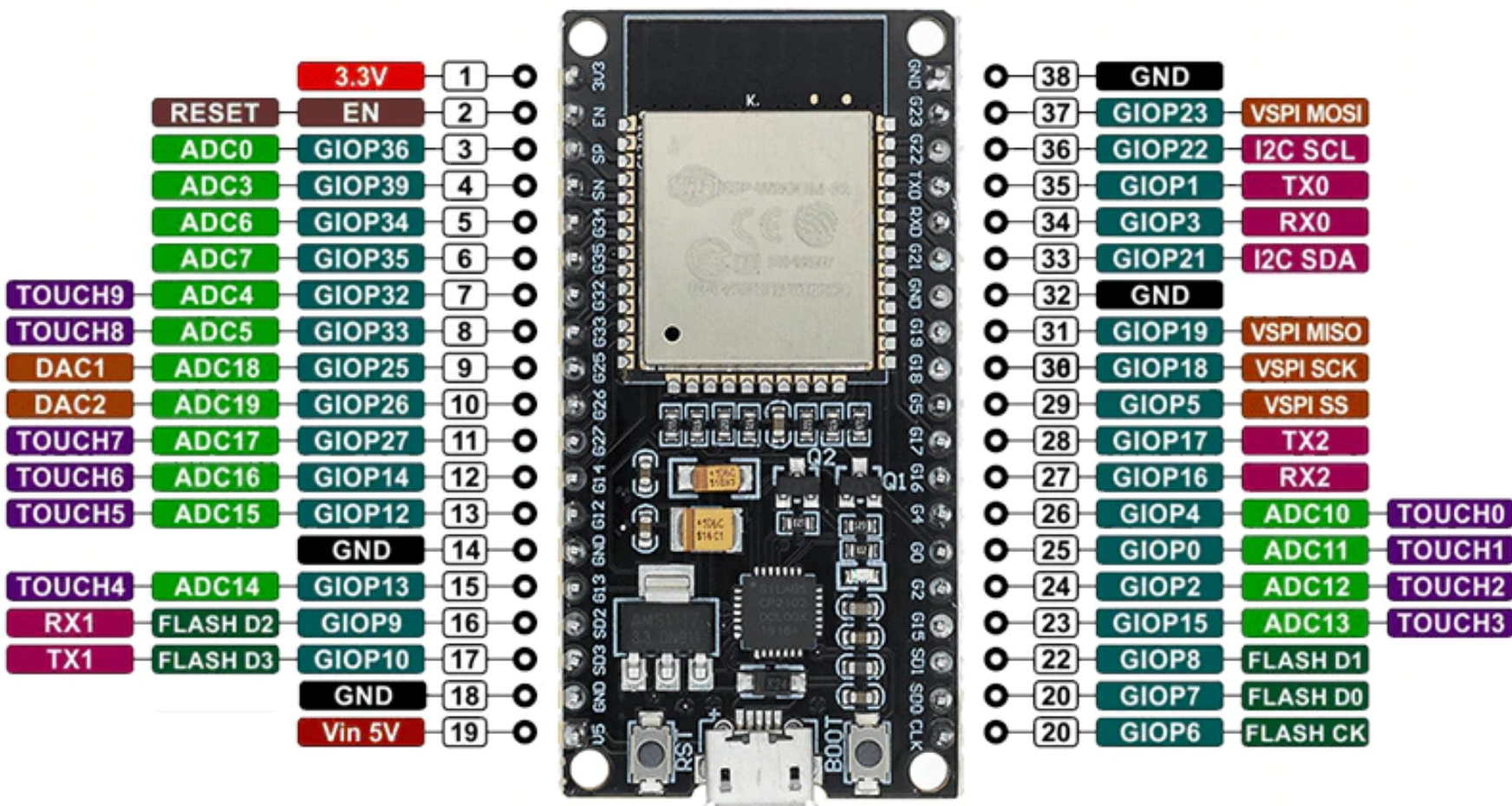
Arduino Integrated Development Environment
(arduino IDE)

Esp8266 vs esp32 PinOut



Microcontroller +wifi

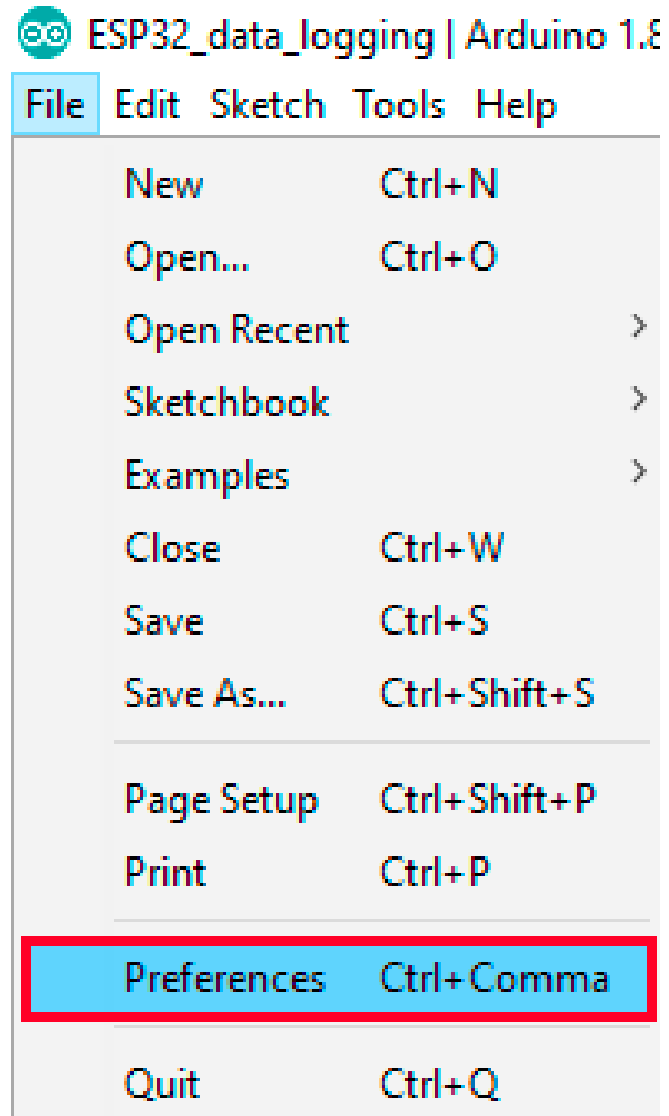
PINOUT ESP32 38 PINES ESP WROOM 32



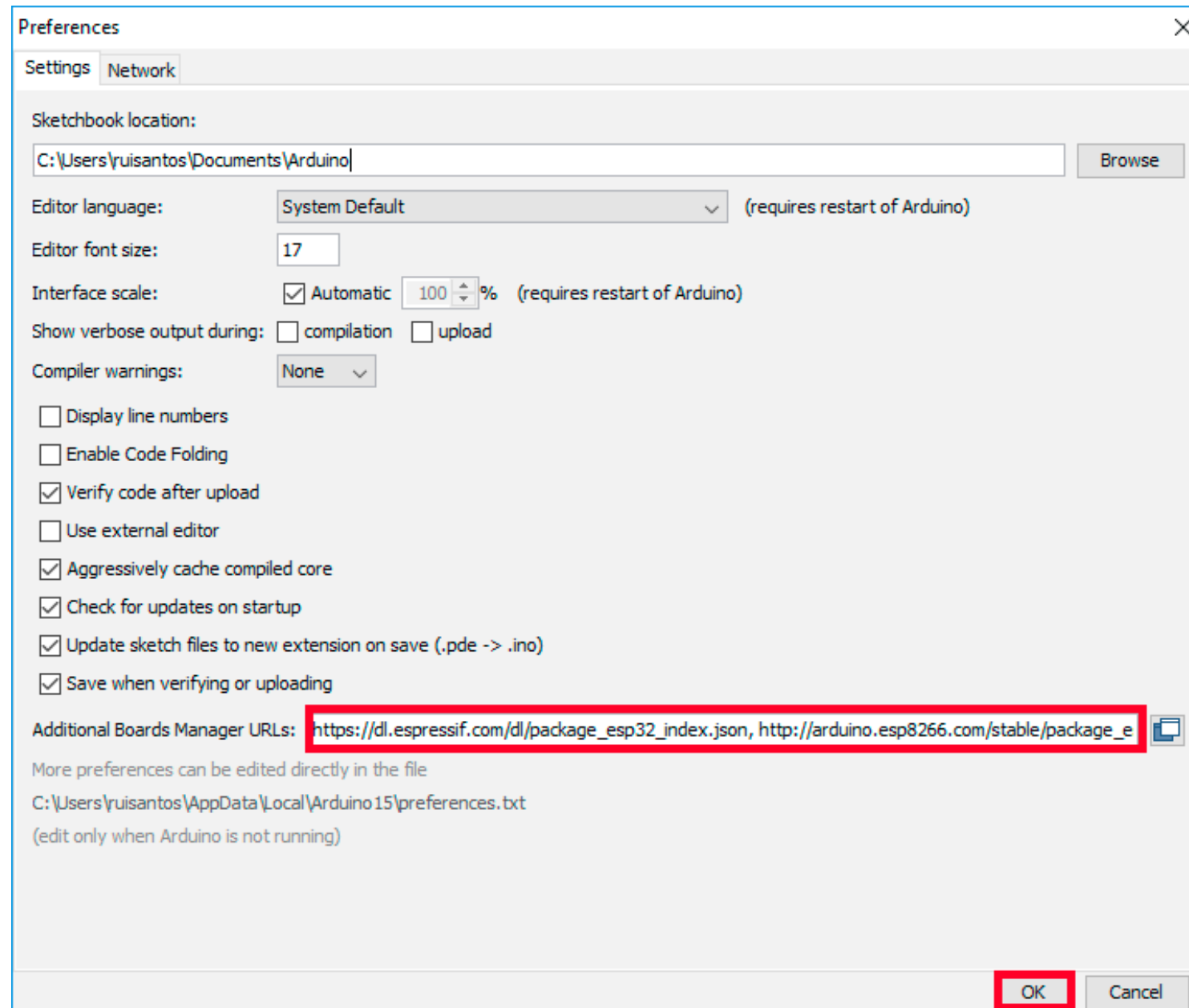
Microcontroller +wifi+ Bluetooth

1- Installing ESP32 Add-on in Arduino IDE

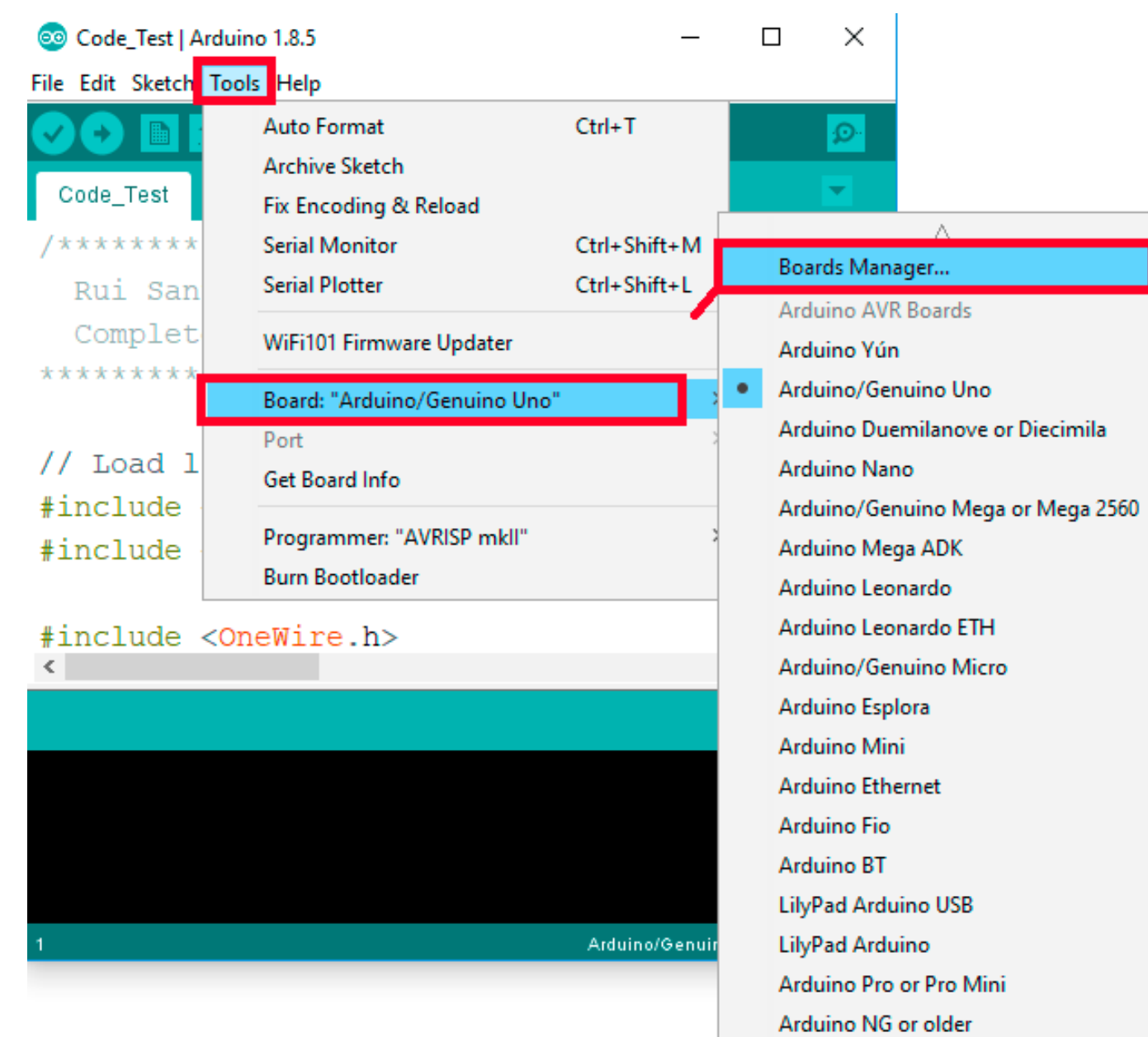
1



2



3



ESP8266

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

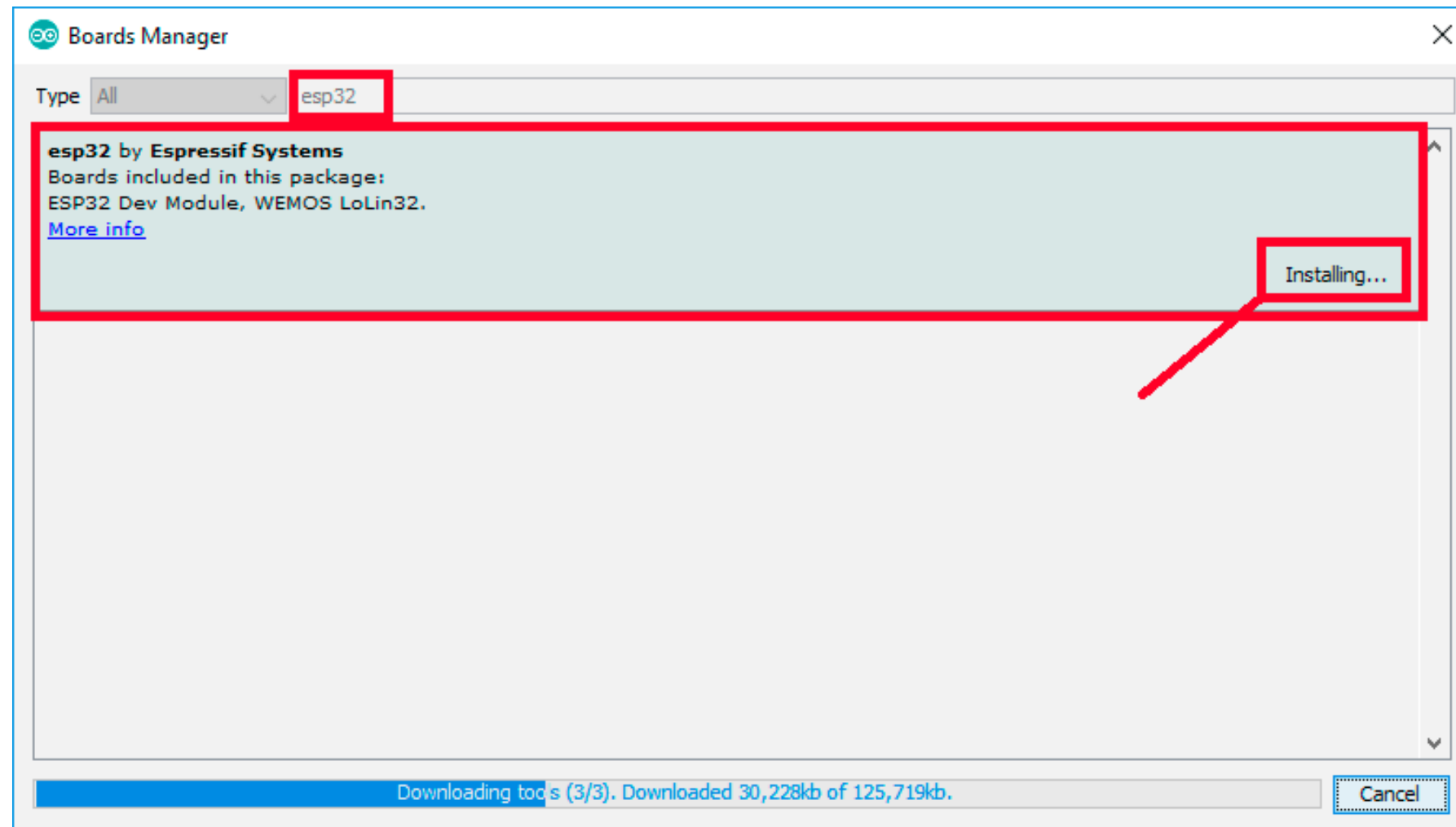
ESP8266 &
ESP32

https://dl.espressif.com/dl/package_esp32_index.json,
http://arduino.esp8266.com/stable/package_esp8266com_index.json



كريم الساعدي

4



5

