

Arduino Software and ESP8266 IoT board library Installation

1. Installation steps for “ Arduino IDE”

Download the Arduino IDE Software from below mentioned URL.

<https://www.arduino.cc/en/Main/Software>



Arduino IDE 2.3.4

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

SOURCE CODE

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

DOWNLOAD OPTIONS

Windows Win 10 and newer, 64 bits
Windows MSI installer
Windows ZIP file

Linux AppImage 64 bits (X86-64)
Linux ZIP file 64 bits (X86-64)

macOS Intel, 10.15: "Catalina" or newer, 64 bits
macOS Apple Silicon, 11: "Big Sur" or newer, 64 bits

[Release Notes](#)

Select the setup file for respective operating system(Example: for windows operating system select Windows installer)

Download Arduino IDE & support its progress

Since the 1.x release in March 2015, the Arduino IDE has been downloaded **90,732,009** times — impressive! Help its development with a donation.

\$3

\$5

\$10

\$25

\$50

Other

CONTRIBUTE AND DOWNLOAD

or

JUST DOWNLOAD

Click on just download.

Will get a pop-up asking for saving the file, click on save file. It will start downloading.

Stay in the Loop: Join Our Newsletter!

As a beginner or advanced user, you can find inspiring projects and learn about cutting-edge Arduino products through our **weekly newsletter**!

email *

☐ I confirm to have read the [Privacy Policy](#) and to accept the [Terms of Service](#) *

☐ I would like to receive emails about special deals and commercial offers from Arduino.

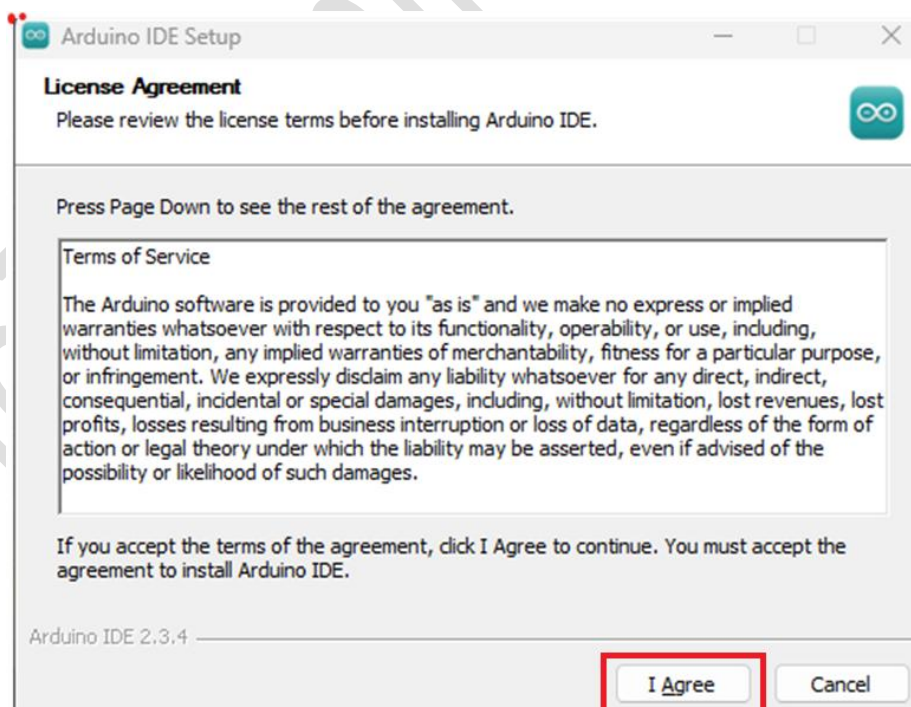
SUBSCRIBE & DOWNLOAD

or

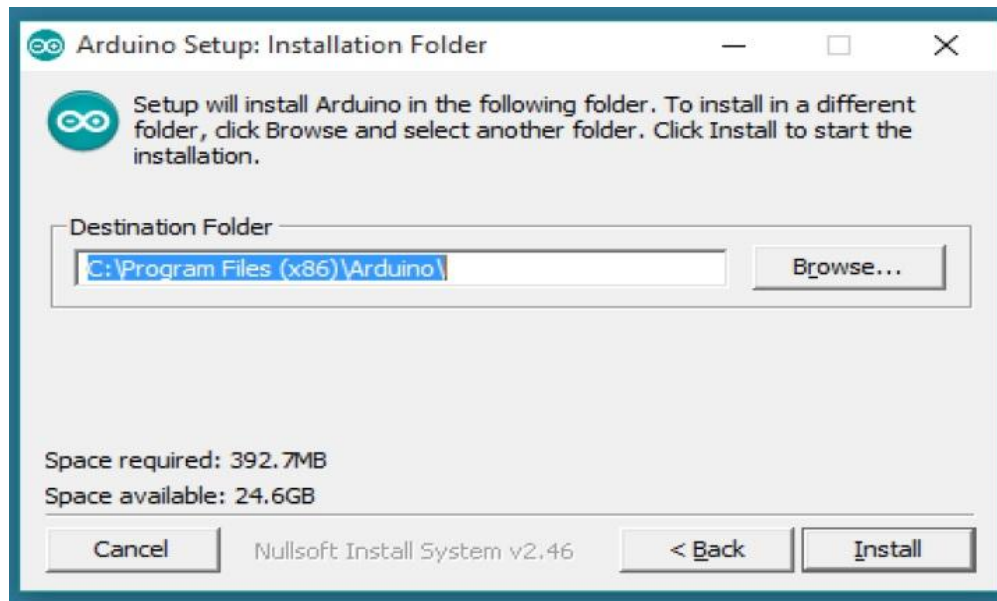
JUST DOWNLOAD

After the download finishes, proceed with the installation and you get a confirmation pop-up window with Yes and No buttons and select Yes button. Please allow the driver install.

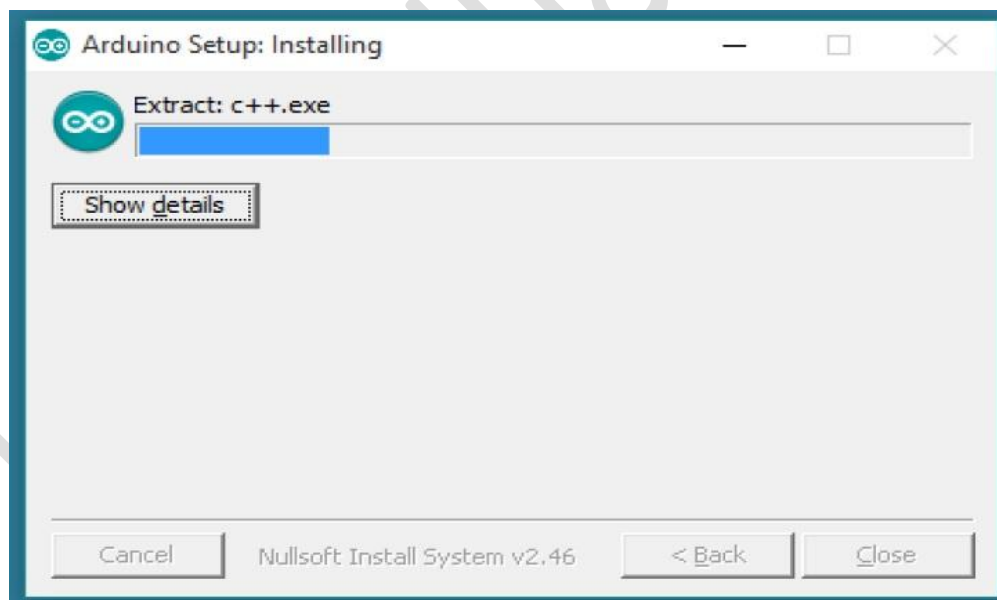
Choose the components to install and Click on next button as shown below.

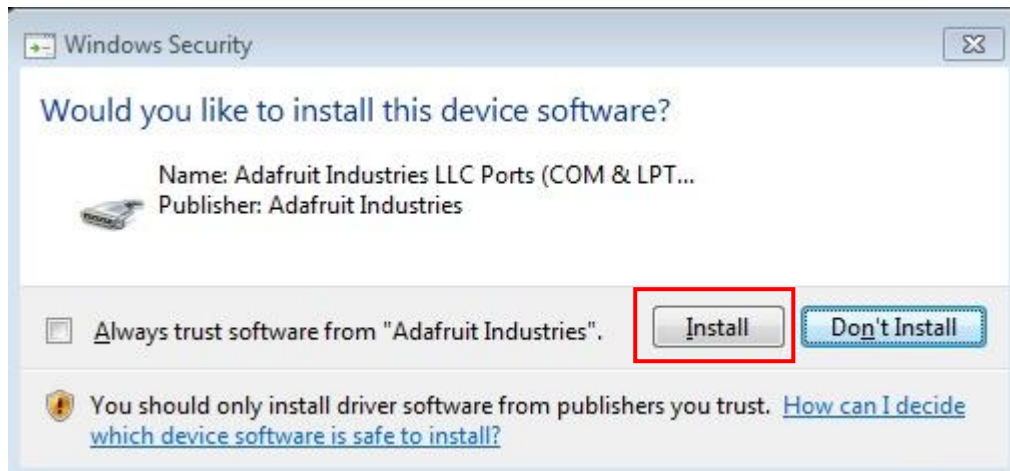


Choose the drive or directory where the software to be installed and click on install.

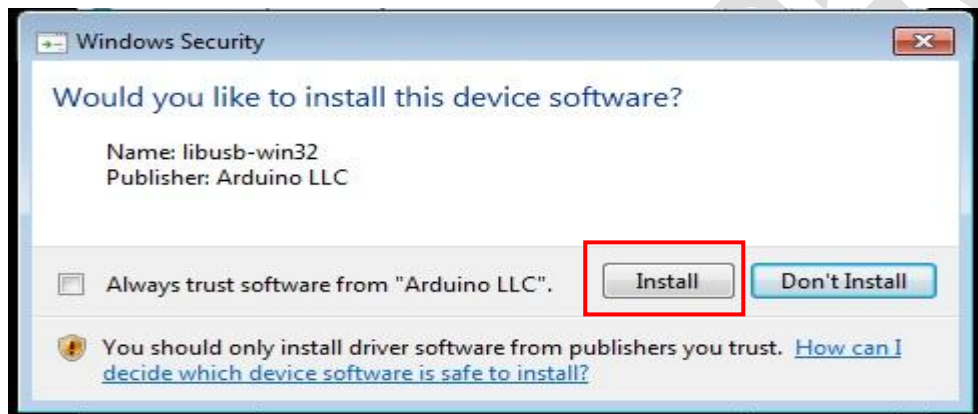


The process will extract and install all the required files to execute the Arduino Software.





Click on install to continue



Click on install to continue



Click on install to continue

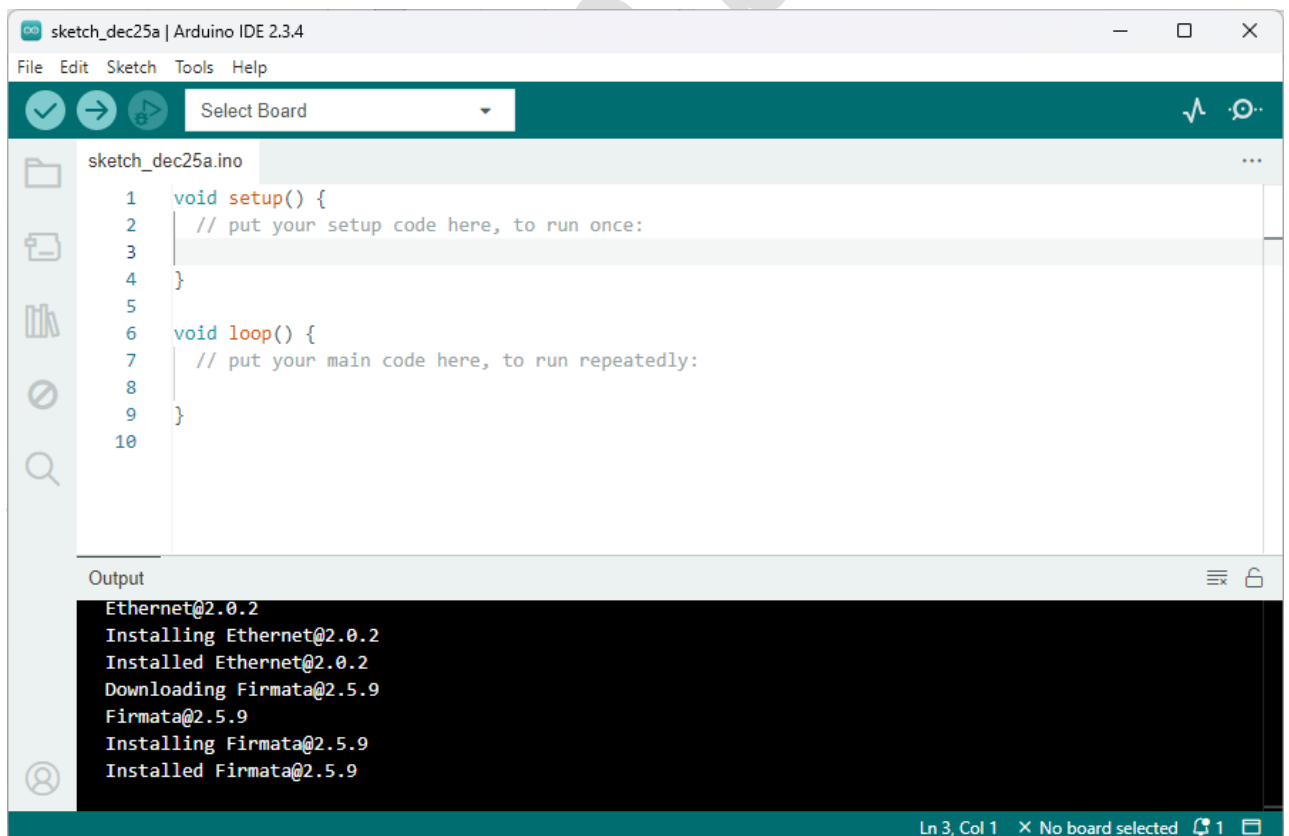
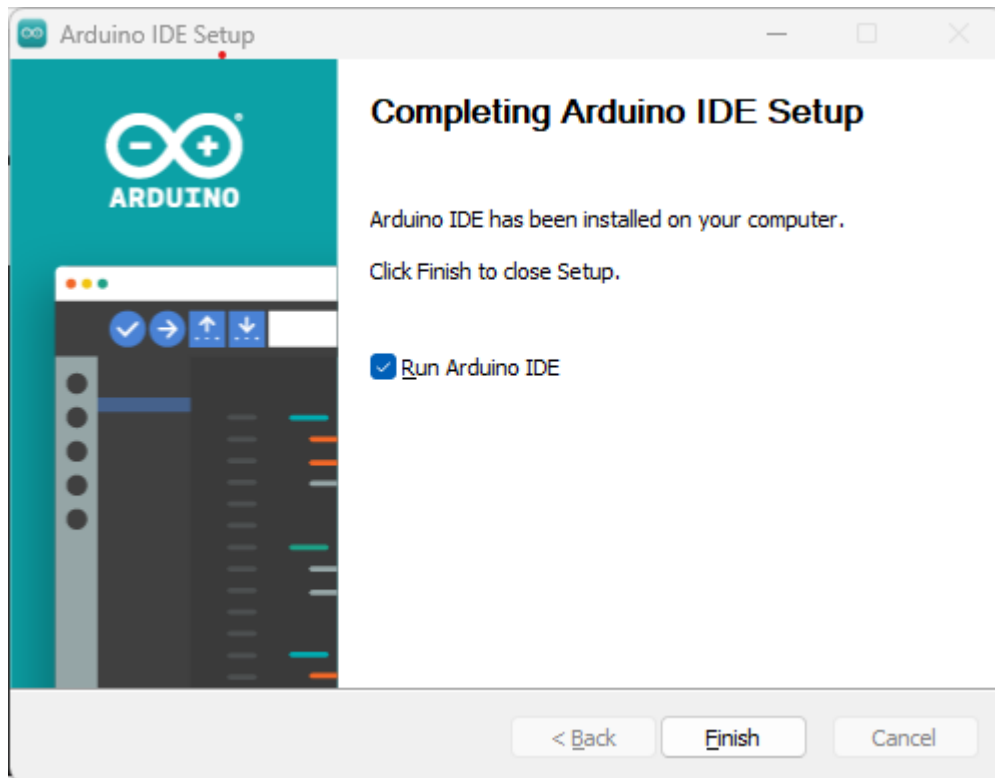


Click on install to continue



Click on install to continue

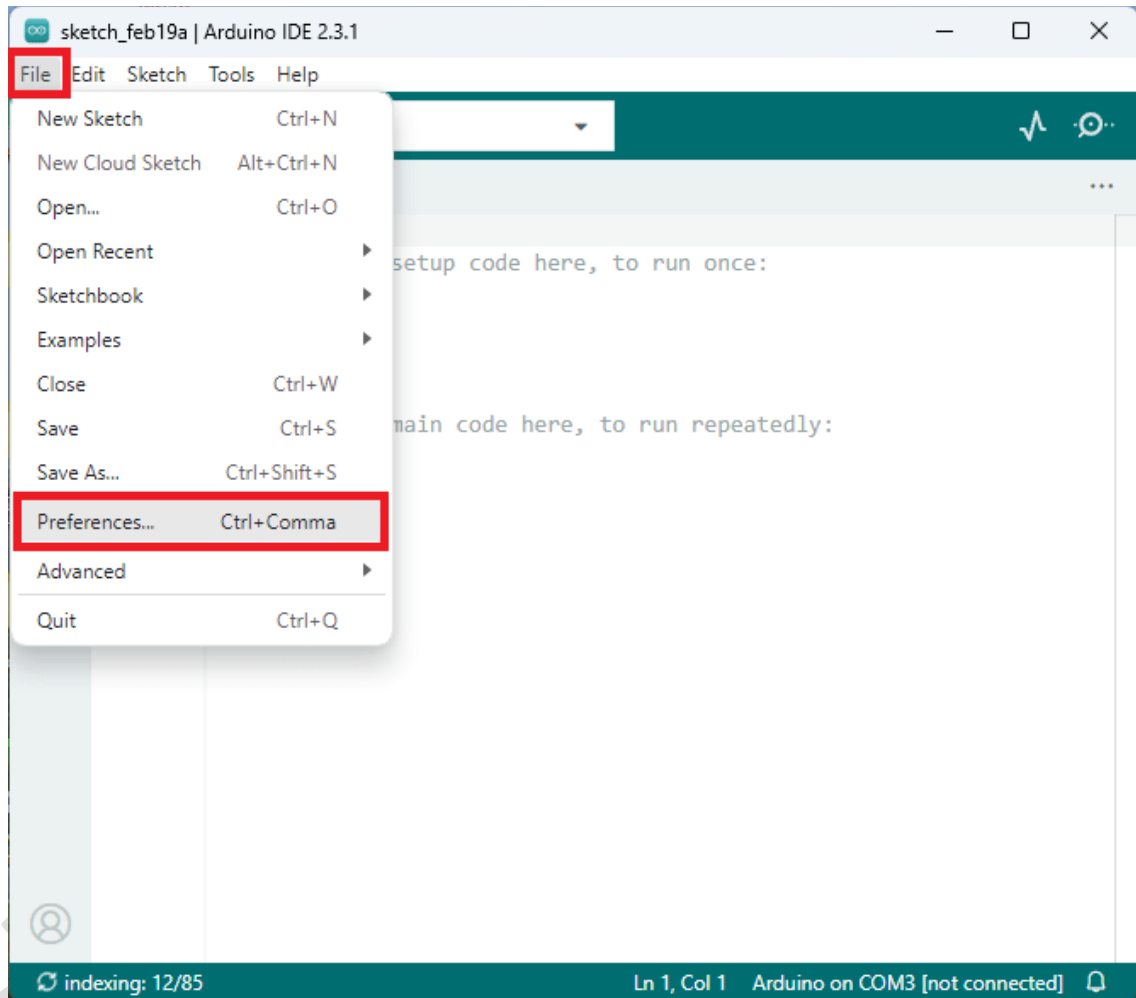
Once the installation is completed, click on Arduino icon (we can see in Desktop), it will open the Arduino IDE as shown below.



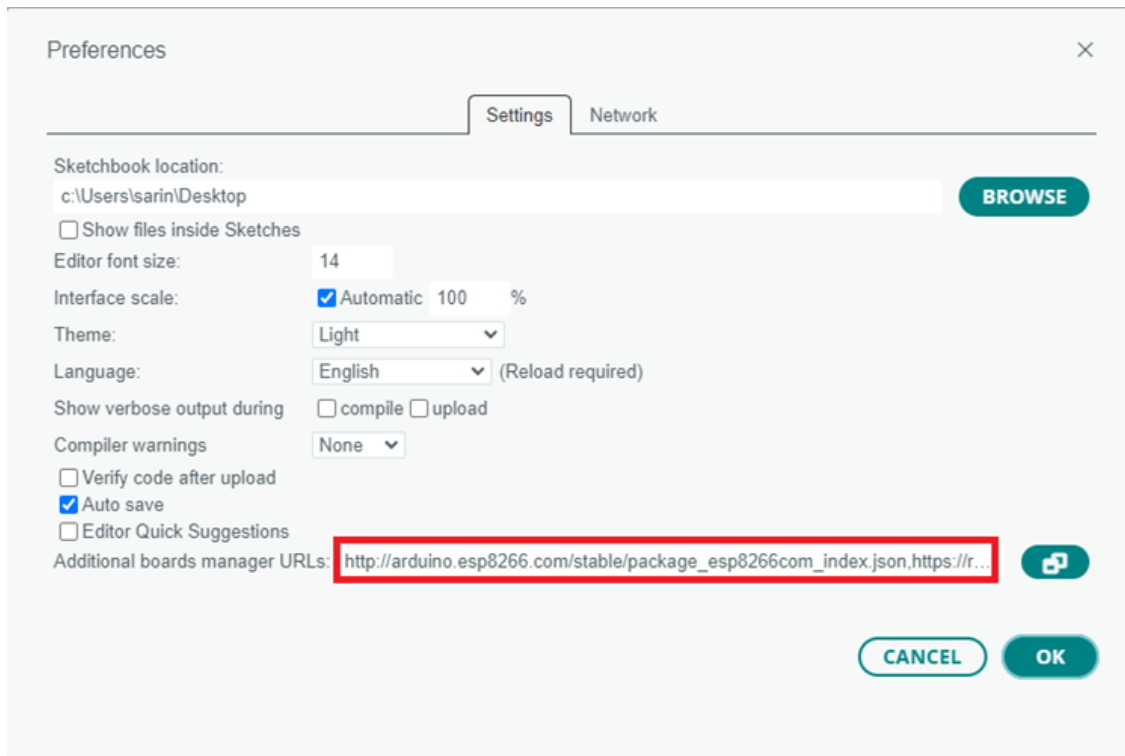
ADDING ESP8266 BOARD PACKAGES TO ARDUINO IDE

Let's begin with installing the ESP8266(NODEMCU) library support for Arduino.
open the Arduino IDE
Go to files and click on the preference in the Arduino IDE.

1. In the Arduino IDE 2, go to **File > Preferences**.



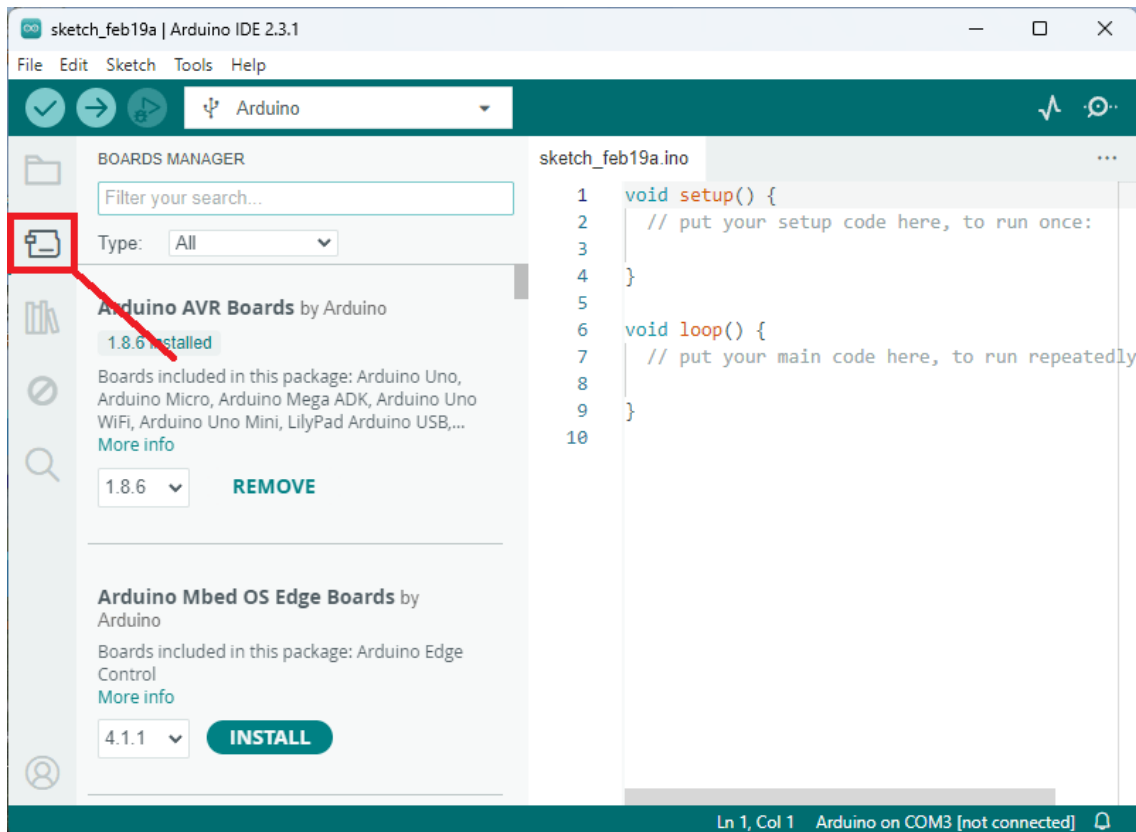
2. Copy the below URL address in the **Additional boards Manager**
http://arduino.esp8266.com/stable/package_esp8266com_index.json
click OK to close the preference Tab.



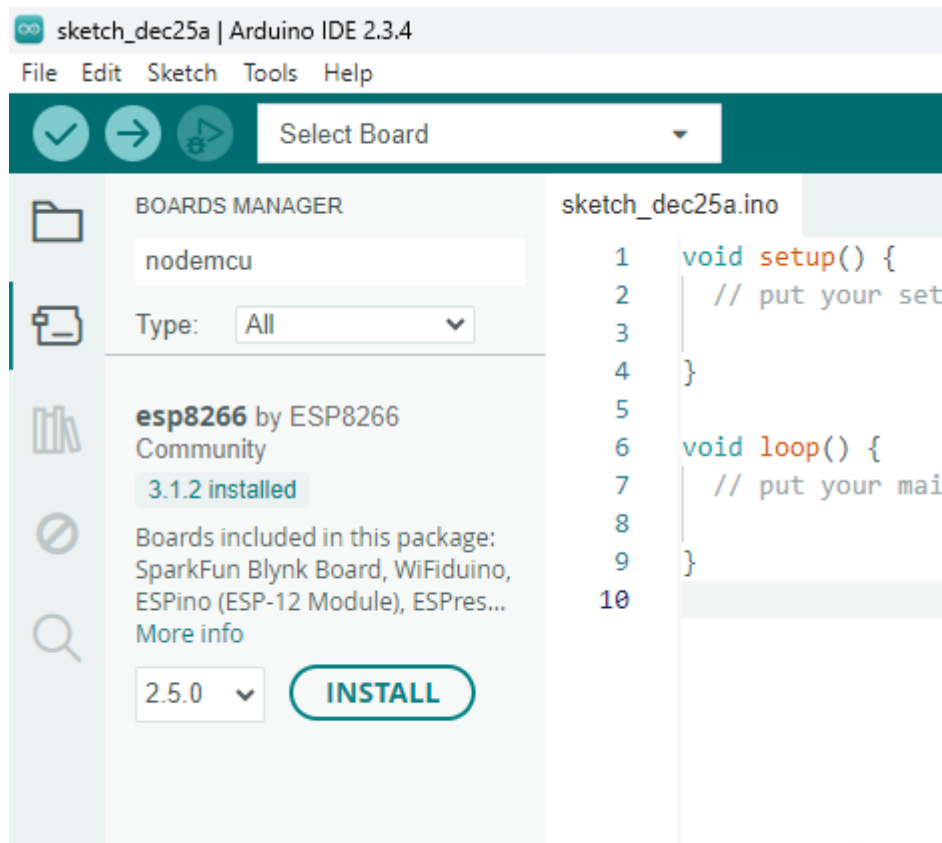
Copy these Content and paste above points

http://arduino.esp8266.com/stable/package_esp8266com_index.json,
https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json

3. Open the Boards Manager. You can go to **Tools > Board > Boards Manager** or you can simply click the Boards Manager icon in the left-side corner.



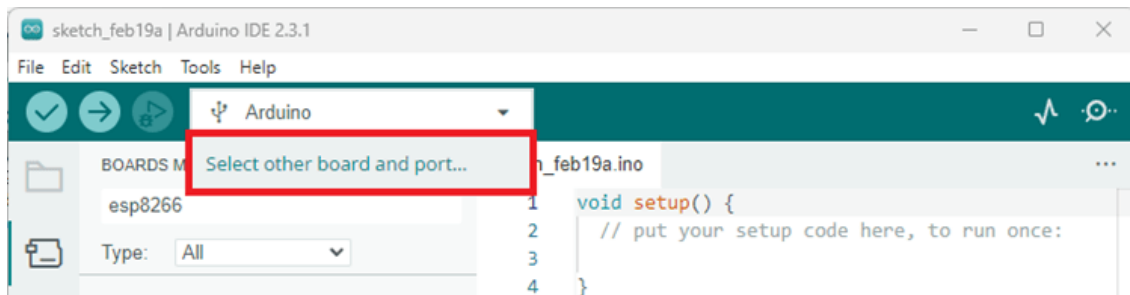
1. Search for **ESP8266** and press the install button for **esp8266 by ESP8266 Community**. Click on install after selecting the **version 2.5.0**



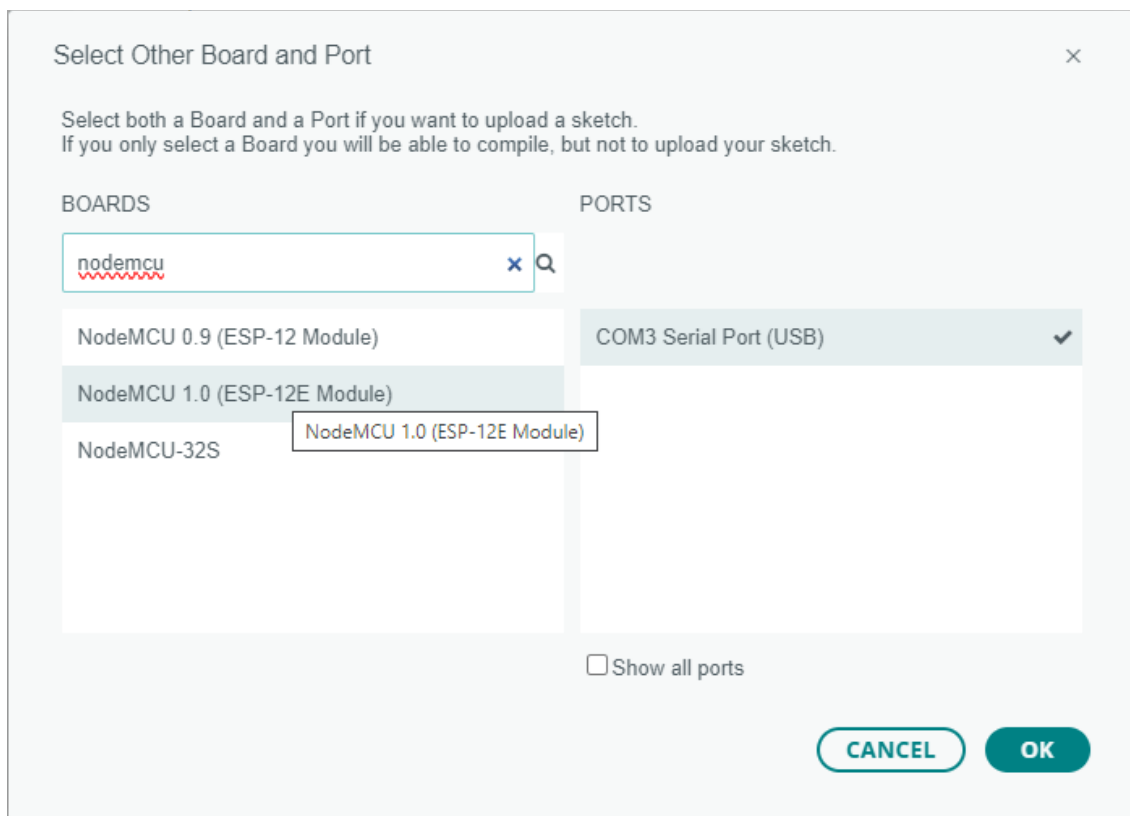
Click on install

After completion of installation go to **Tools>Board>select “Nodemcu 1.0(ESP-12E Module)”**

Select your board before uploading the code. On the top drop-down menu, click on **“Select other board and port...”**



A new window, as shown below, will open. Search for your ESP8266 board model



Select the ESP8266 board model you’re using, and the COM port.