

1. Installation steps for “Arduino IDE”

Download the Arduino IDE Software from below mentioned URL.

<https://www.arduino.cc/en/software>

Downloads



The screenshot shows the Arduino IDE 1.8.13 download page. On the left, there's a section with the Arduino logo and the text "Arduino IDE 1.8.13". Below this, it says "The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board." and "Refer to the **Getting Started** page for Installation instructions." There's also a "SOURCE CODE" section mentioning GitHub. On the right, a teal sidebar titled "DOWNLOAD OPTIONS" lists various download links for Windows, Linux, and Mac OS X, including a "Get" button for Windows app.

Arduino IDE 1.8.13

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the **Getting Started** page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is **hosted by GitHub**. See the instructions for **building the code**. Latest release source code archives are available **here**. The archives are PGP-signed so they can be verified using **this** gpg key.

DOWNLOAD OPTIONS

- Windows** Win 7 and newer
- Windows** ZIP file
- Windows app** Win 8.1 or 10 **Get**
- Linux** 32 bits
- Linux** 64 bits
- Linux** ARM 32 bits
- Linux** ARM 64 bits
- Mac OS X** 10.10 or newer

Release Notes Checksums (sha512)

Select the setup file for respective operating system(Example: for windows operating system select **Windows win 7 and newer**)



The screenshot shows the Arduino IDE donation page. It has a heading "Support the Arduino IDE" and text stating that since the 1.x release in March 2015, the IDE has been downloaded 50,234,635 times. Below this, there are buttons for donation amounts: \$3, \$5, \$10, \$25, \$50, and "Other". There are two main buttons: "JUST DOWNLOAD" (highlighted with a red border) and "CONTRIBUTE & DOWNLOAD". At the bottom, there are illustrations of a robot, a jar, and a circuit board.

Support the Arduino IDE

Since the release 1.x release in March 2015, the Arduino IDE has been downloaded **50,234,635** times — impressive! Help its development with a donation.

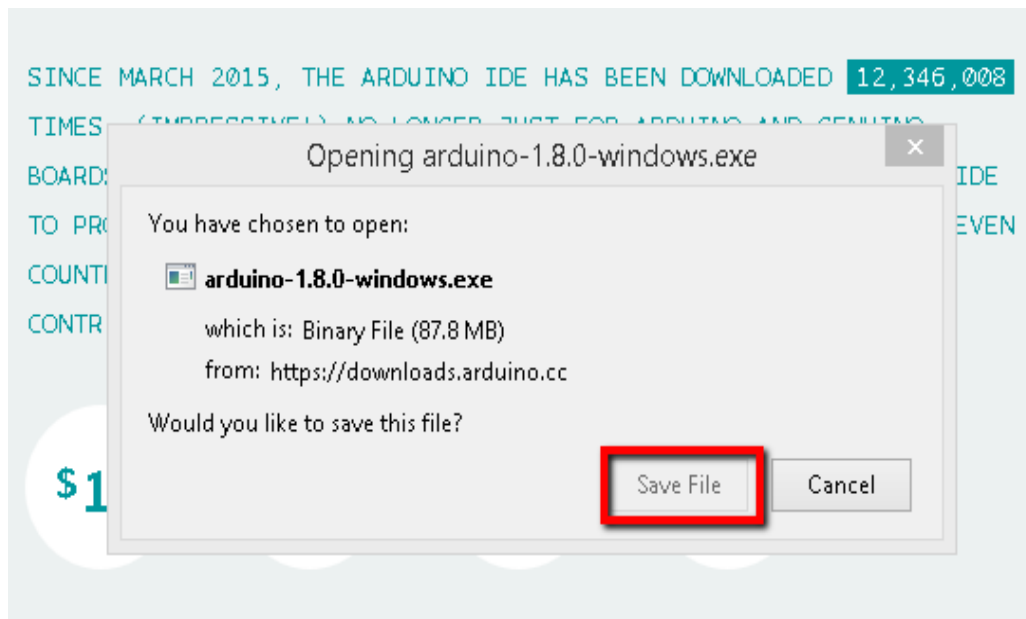
\$3 \$5 \$10 \$25 \$50 Other

JUST DOWNLOAD **CONTRIBUTE & DOWNLOAD**

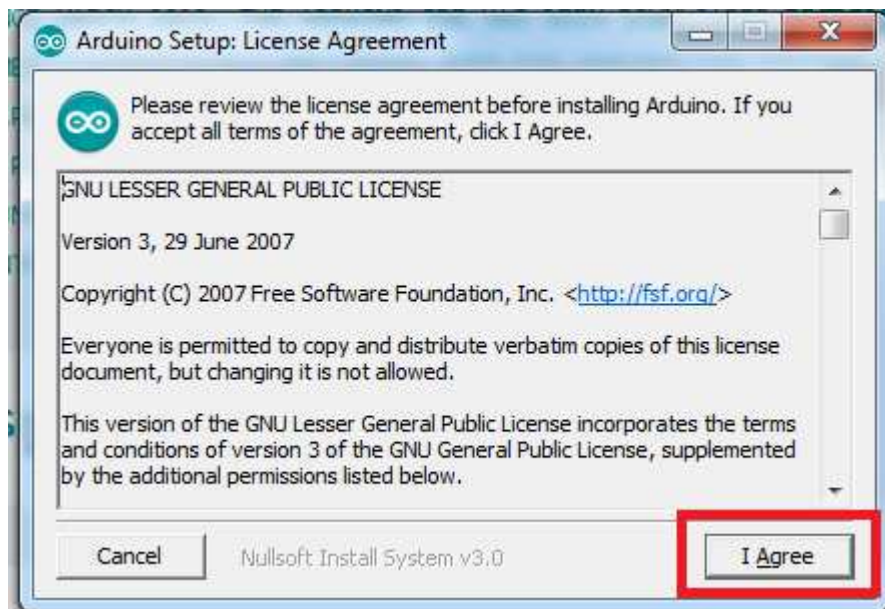
Illustrations: A robot, a jar, and a circuit board.

Click on just download.

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

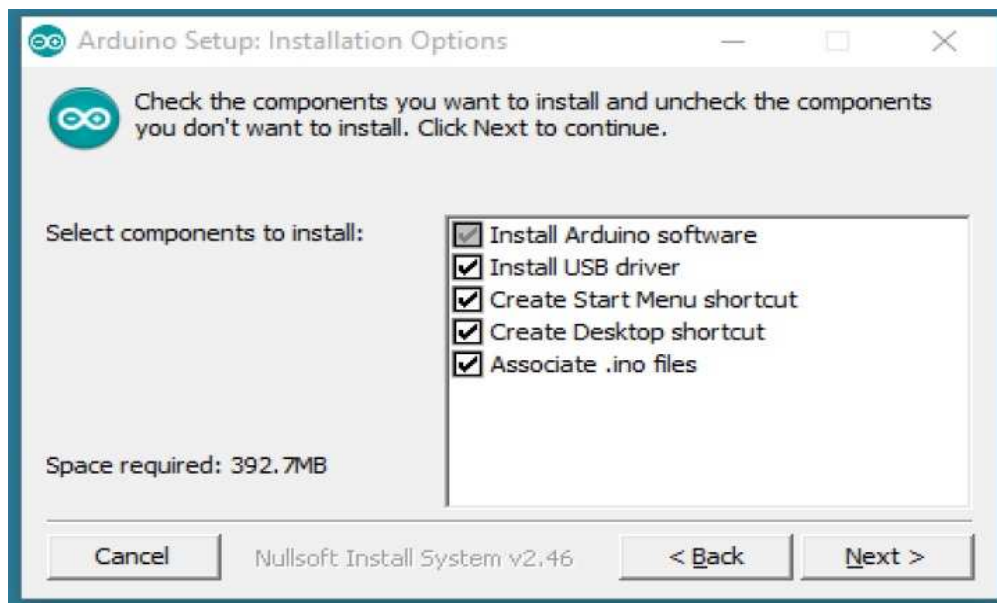


After the download finishes, proceed with the installation and you get a confirmation pop-up window with Yes and No buttons and select Yes button. Please allow the driver install.

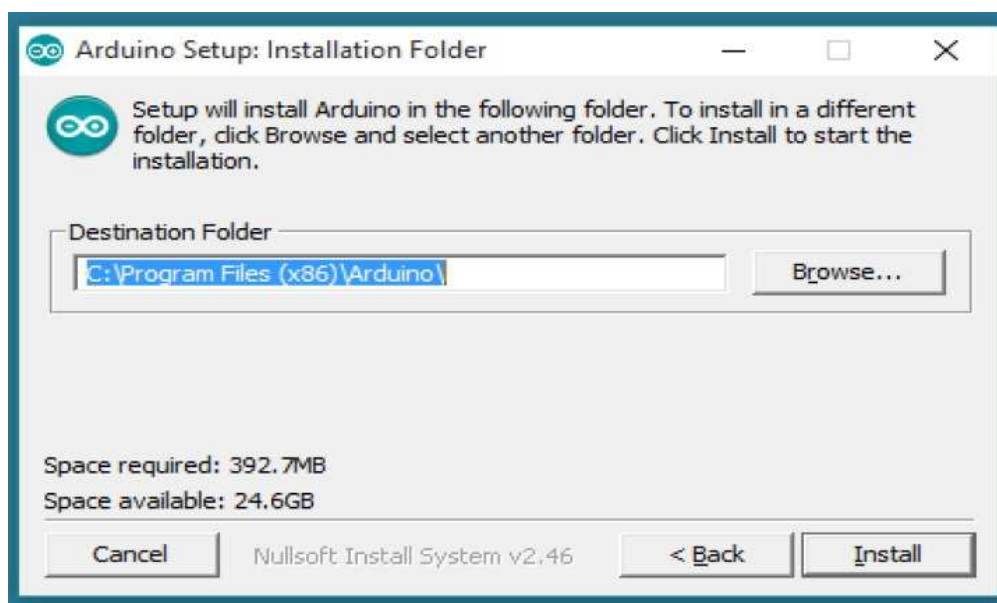


Click on I agree

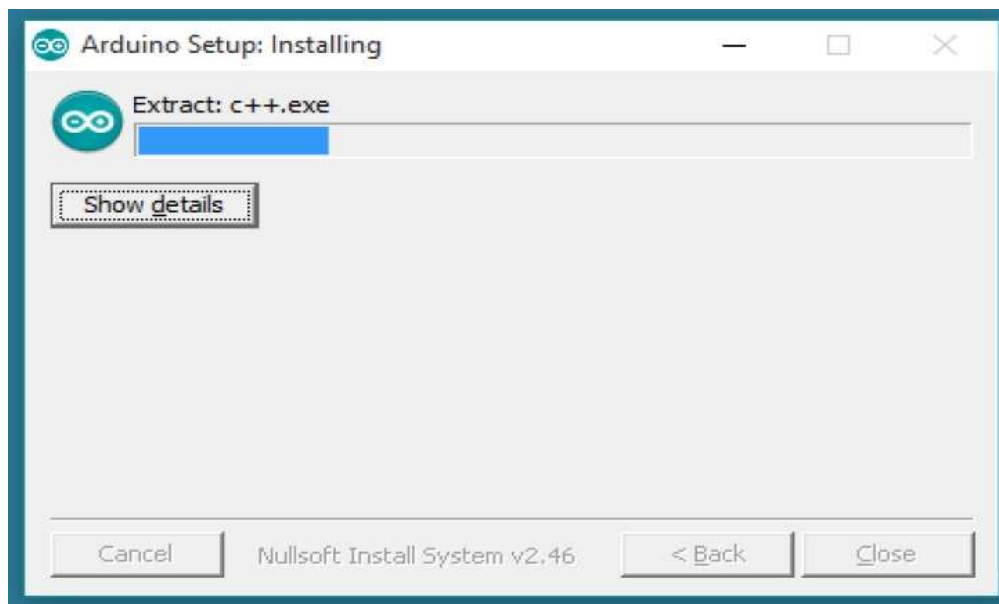
Choose the components to install and Click on next button as shown below.



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

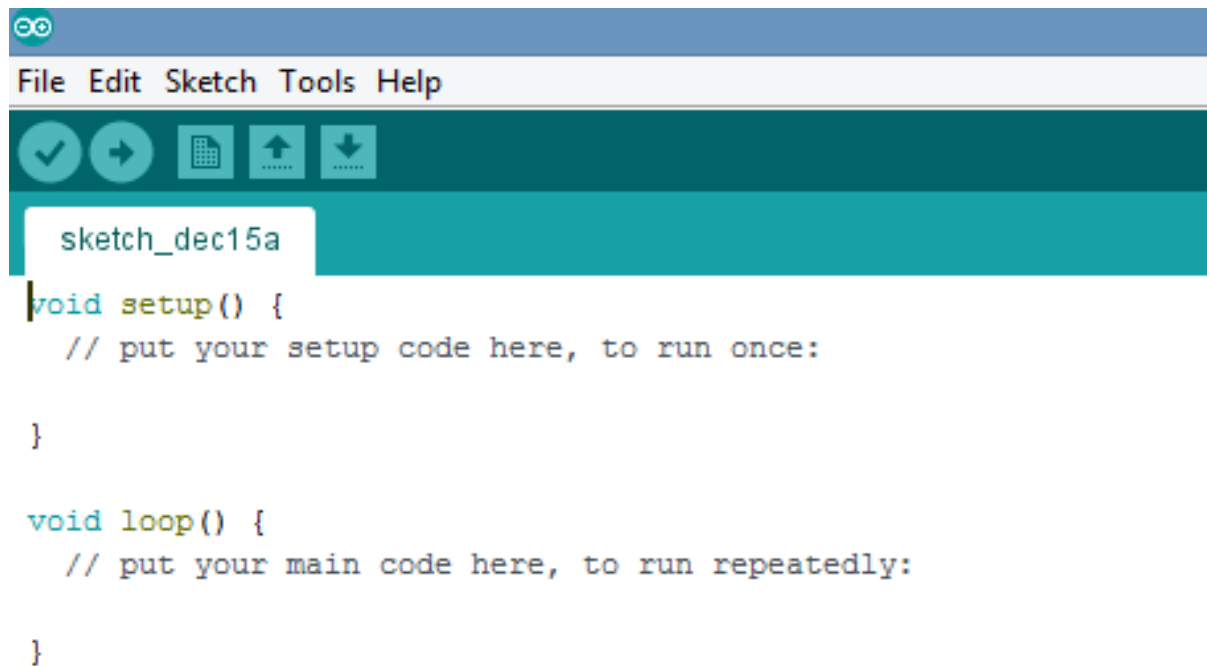


Click on install to continue



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.

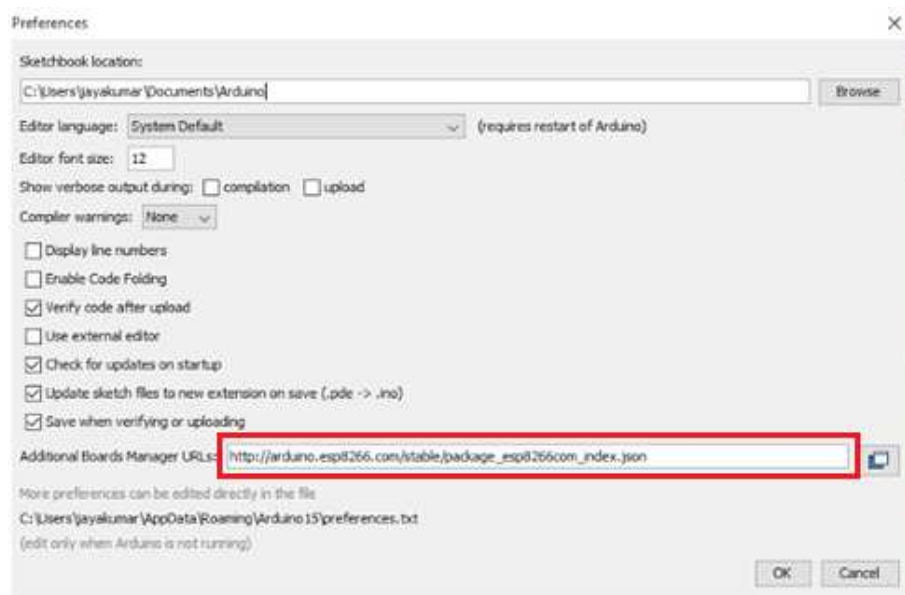
Firstly open the Arduino IDE

Go to files and click on the preference in the Arduino IDE.

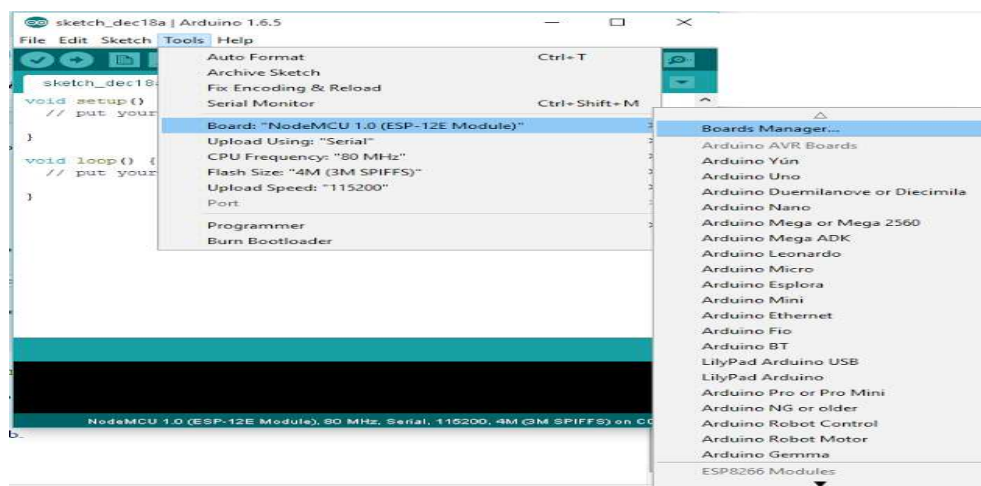
1. Copy the below URL address in the **Additional boards Manager**

http://arduino.esp8266.com/stable/package_esp8266com_index.json

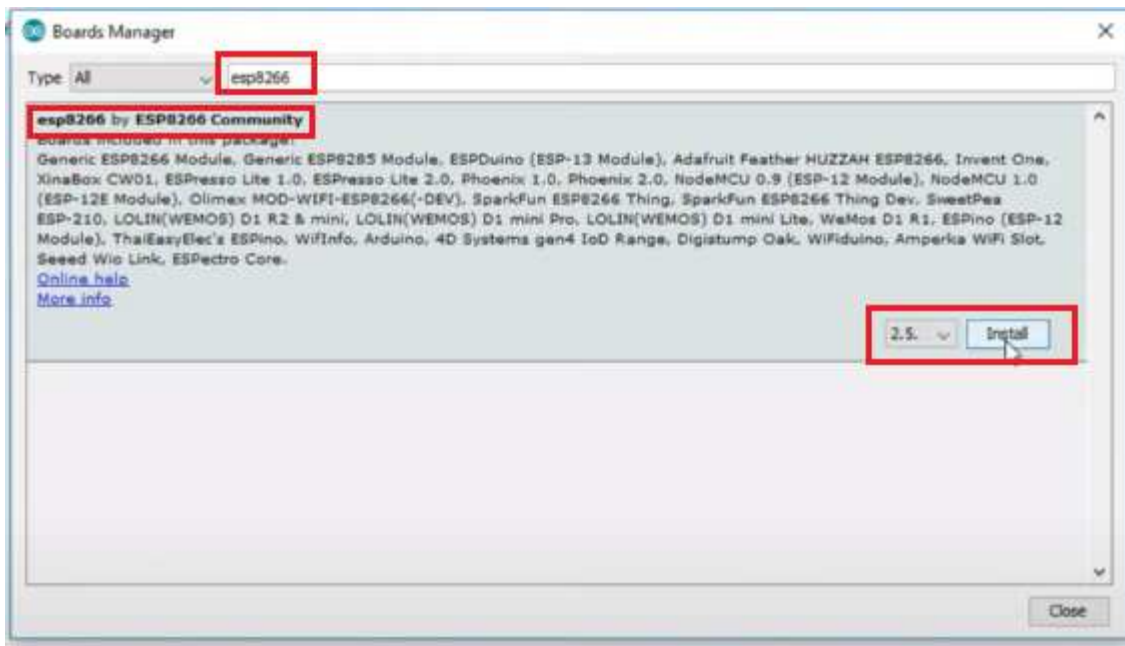
click OK to close the preference Tab.



2. After completing the above steps , go to **Tools** and **board**, and then select **board Manager**

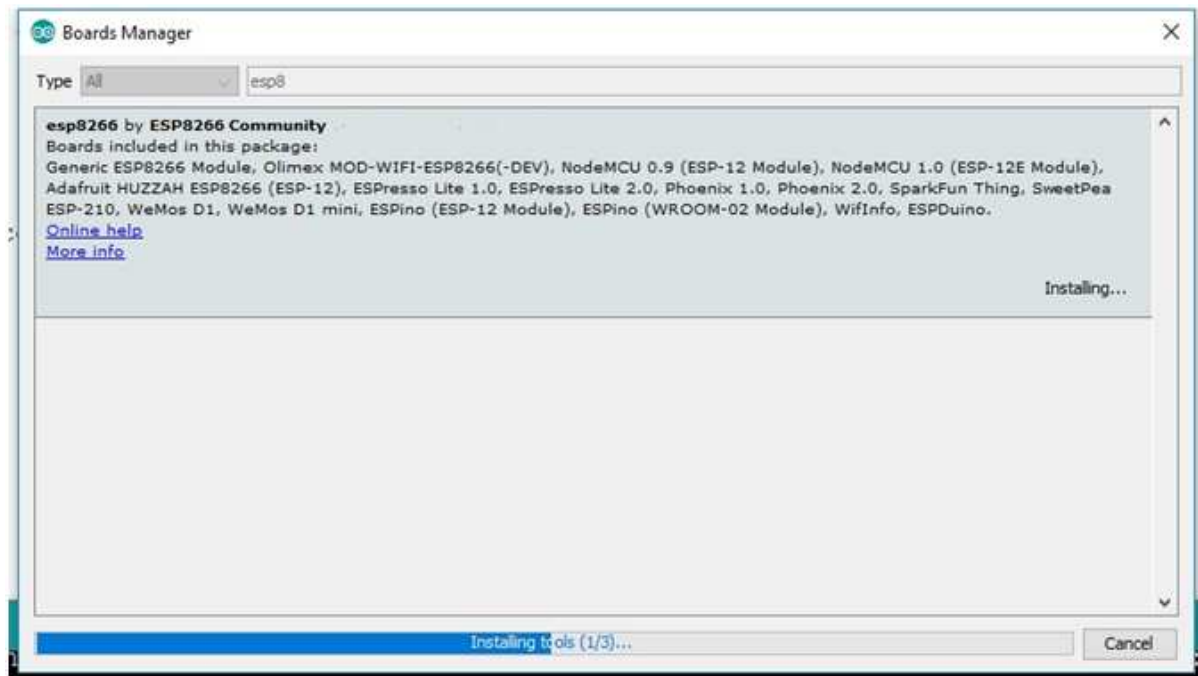


3. In Search menu type esp8266.

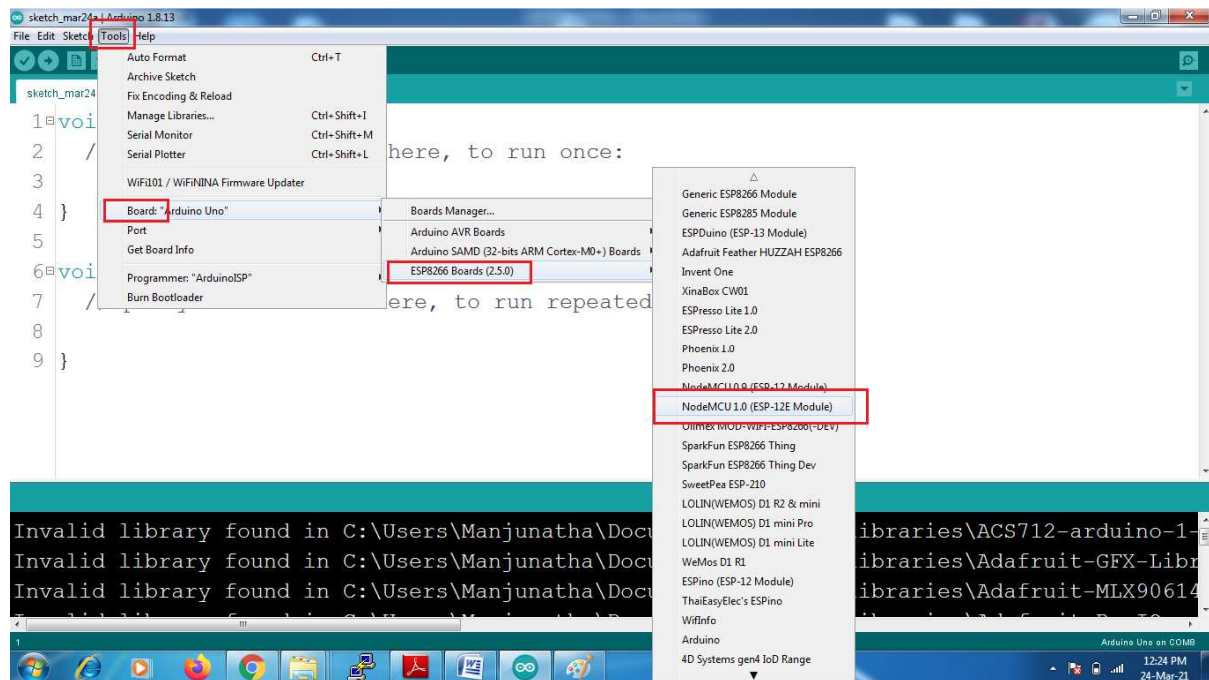


Click on install after selecting the version 2.5.0

Note: It will take several minutes to install



After completion of installation go to **Tools>Board>ESP8266 Boards(2.5.0)>select “Nodemcu 1.0(ESP-12E Module)”**



If it is not appeared in the board list repeat from step 1 to step 5

For installation video please find the below links

<https://www.youtube.com/watch?v=tAo7vSktP5E>

<https://www.youtube.com/watch?v=OC9wYhv6juM>