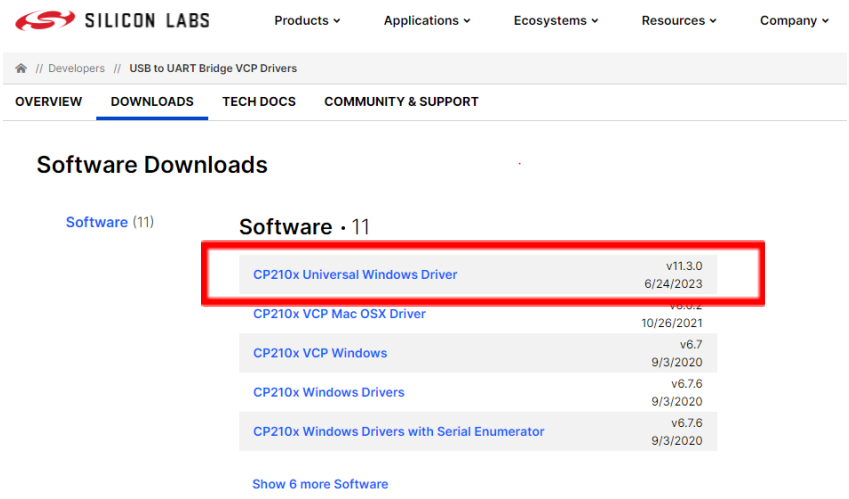
Arduino IDE Configuration & Installation

Step # 1 : Download IDE

Download and Install **Arduino IDE** from https://www.arduino.cc/en/software

Step # 2 : Download Driver

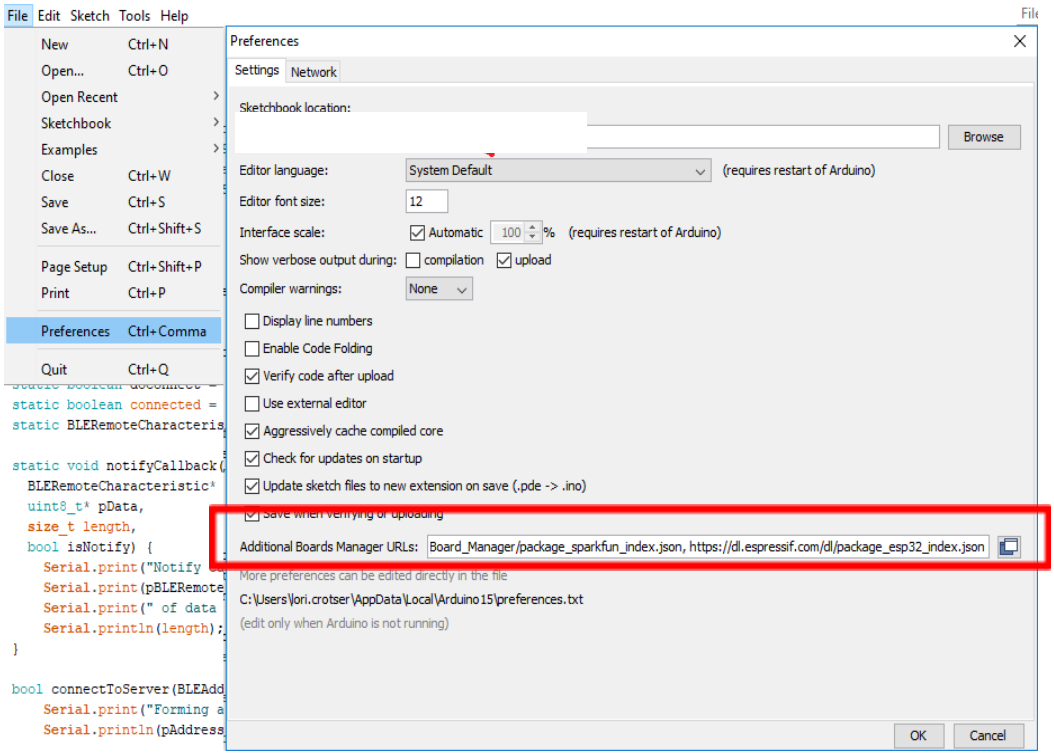
Download and Install **CP210x Universal Windows Driver** from
https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads



Step # 3 : Include Preferences

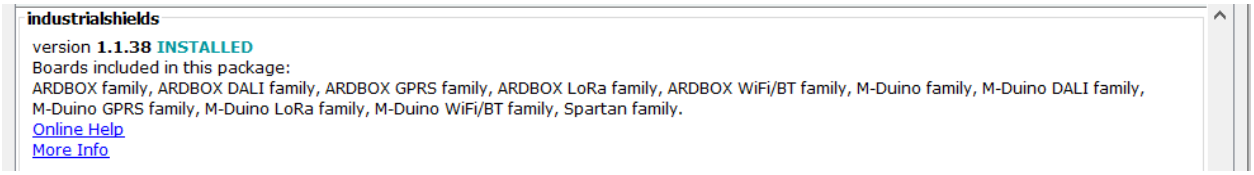
Paste the following preferences in the Additional Boards Manager URLs i.e. File > Preferences

https://dl.espressif.com/dl/package_esp32_index.json,
http://apps.industrialshields.com/main/arduino/boards/package_industrialshields_index.json



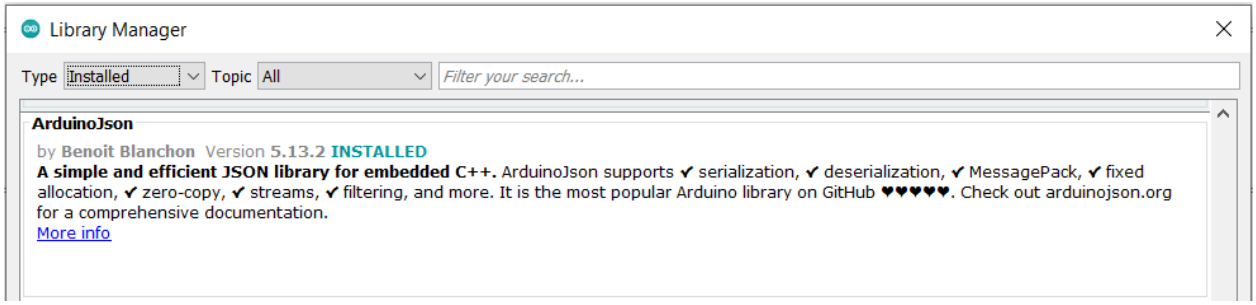
Step # 4 : Install Boards

Now go to Tools > Board > Board Manager and download the following boards

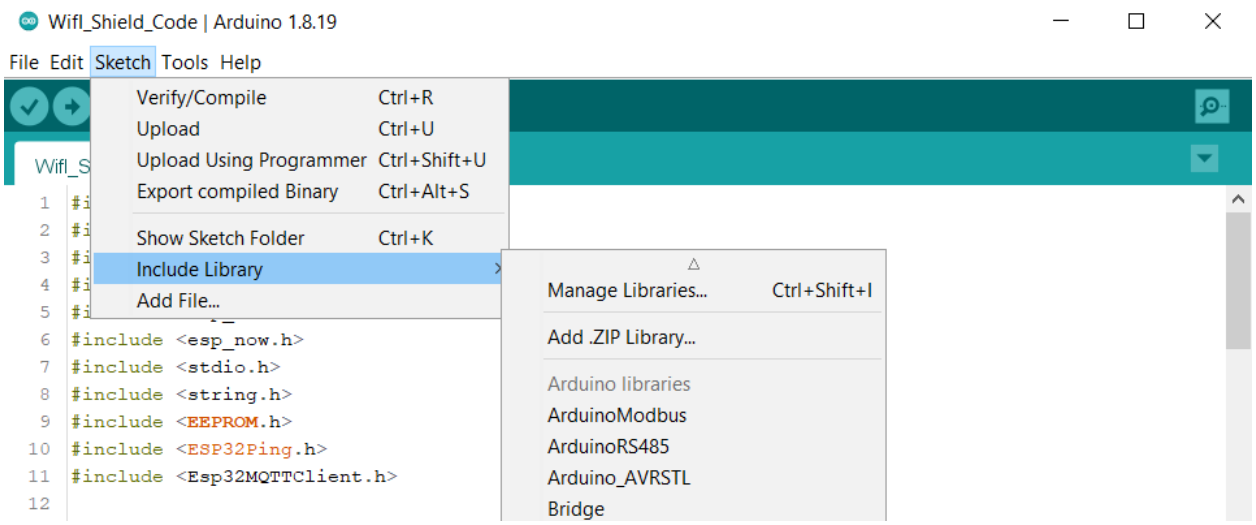


Step # 5 : Install Libraries

Go to Sketch > Include Library > Manage Libraries and install “Arduino JSON by Benoit”



Also download the Esp32 Ping library (Zip file) from https://github.com/marian-craciunescu/ESP32Ping and include it in the Arduino IDE Libraries from Sketch > Include Library > Add. Zip Library



Step # 6 : Select Boards

For PLC : Select Tools > boards > industrial shields boards > M-Duino Family (Model : M-Duino 21+)

For WiFi Shield : Select Tools > boards > ESP32 Arduino > Sparkfun ESP32 Thing Plus

Congratulation !!!

Now you can use PLC and Wi-Fi Shield Codes