

Introduction to Arduino IDE

Bootcamp - Menjadi IoT Engineer

Edspert.id

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#jadiExpert

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Download & Install Arduino IDE



Download Arduino IDE

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

Download the Arduino IDE



Pilih Salah Satu Sesuai dengan OS pada Komputer Anda

ARDUINO 1.8.5

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software.

This software can be used with any Arduino board. Refer to the [Getting Started](#) page for Installation instructions.

Windows Installer, for Windows XP and up
Windows ZIP file for non admin install

Windows app Requires Win 8.1 or 10



Mac OS X 10.7 Lion or newer

Linux 32 bits

Linux 64 bits

Linux ARM

[Release Notes](#)

[Source Code](#)

[Checksums \(sha512\)](#)




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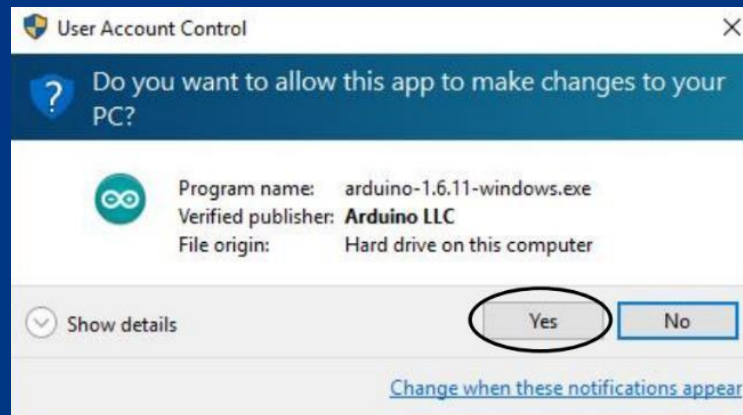
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Install Arduino IDE

- Buka “Arduino.exe”.

Name	Date modified	Type	Size
 arduino-1.6.11-windows.exe	8/18/2016 9:45 PM	Application	86,047 KB

- Lalu akan tampil seperti ini. Klik “Yes”.

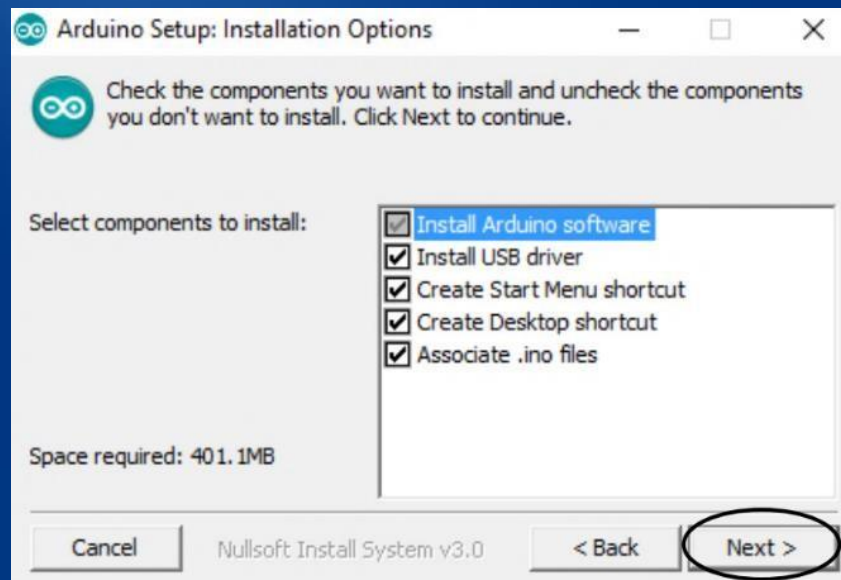


- Kemudian klik “I Agree”.

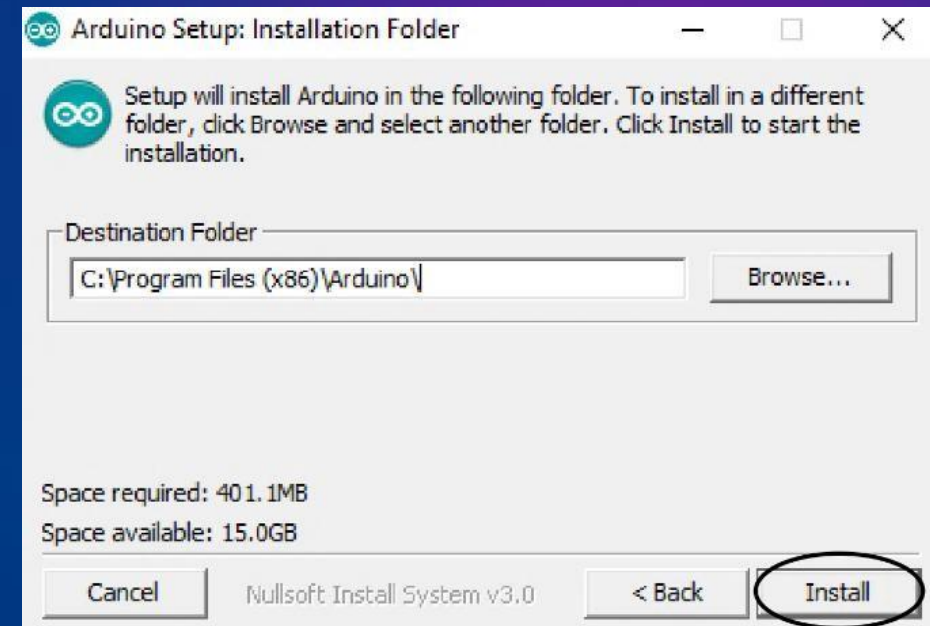


Install Arduino IDE

- Centang semuanya, lalu klik **Next**.

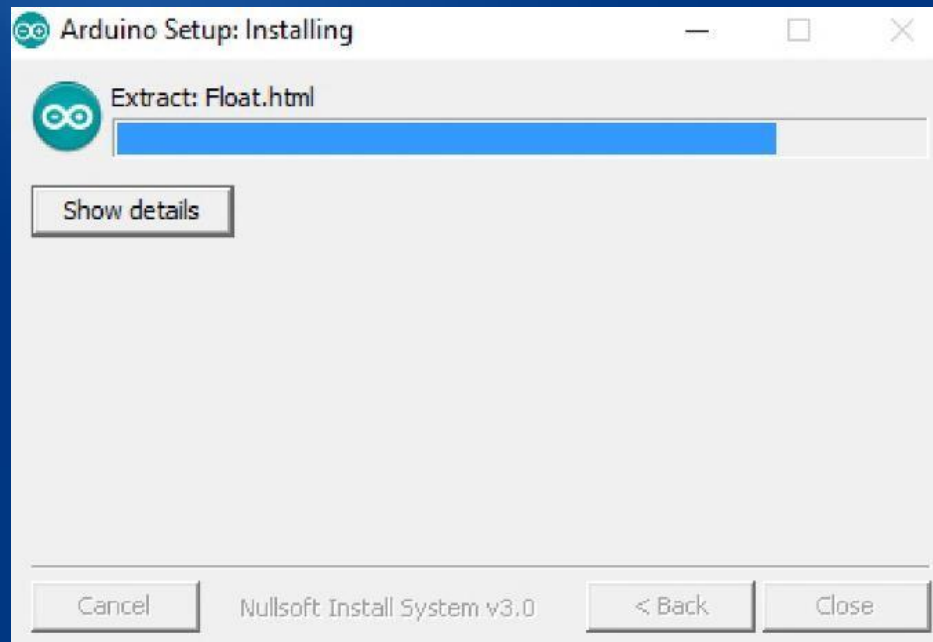


- Tentukan penempatan dari file instalasi anda, lalu klik **Install**.

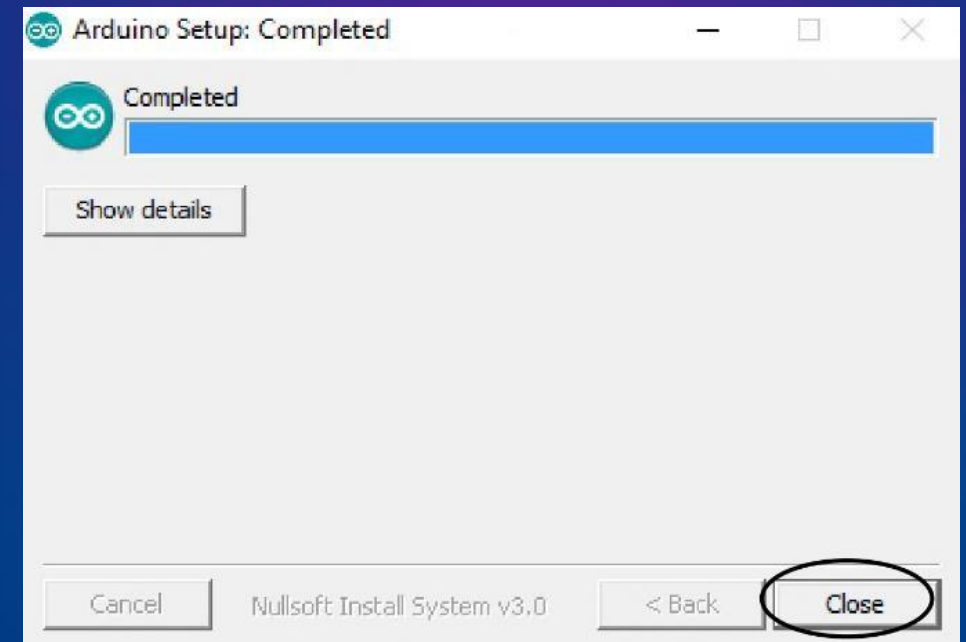


Install Arduino IDE

- Tunggu prosesnya hingga selesai.

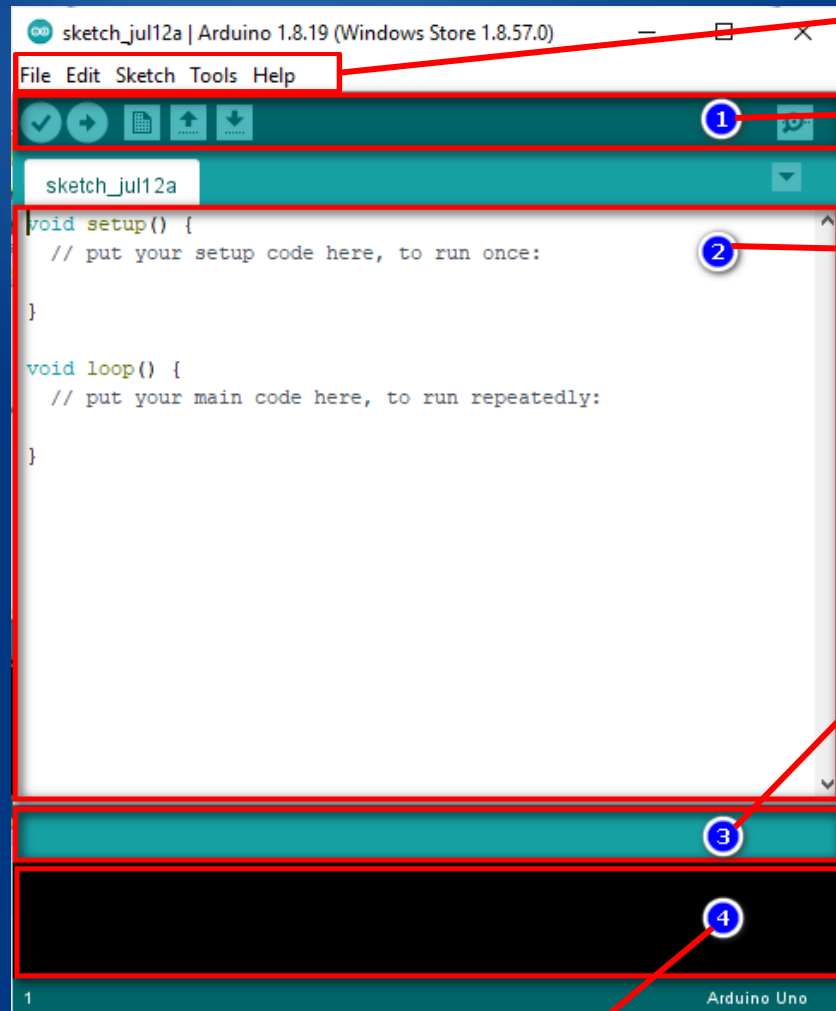


- Setelah selesai, klik “Close”.



Bagian - Bagian Arduino IDE





Menu bar

Toolbar

Sketch

Notification

verify

upload

Create new
sketch

open

save

Serial
monitor

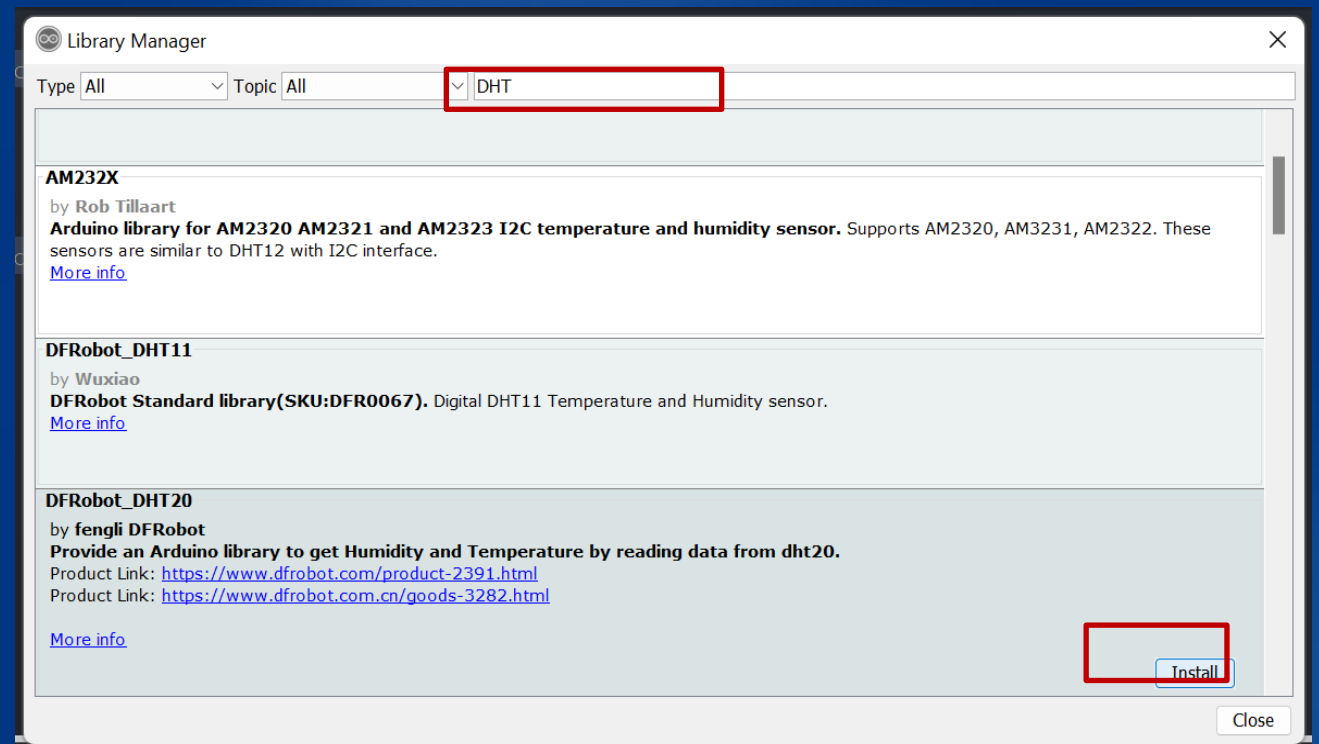
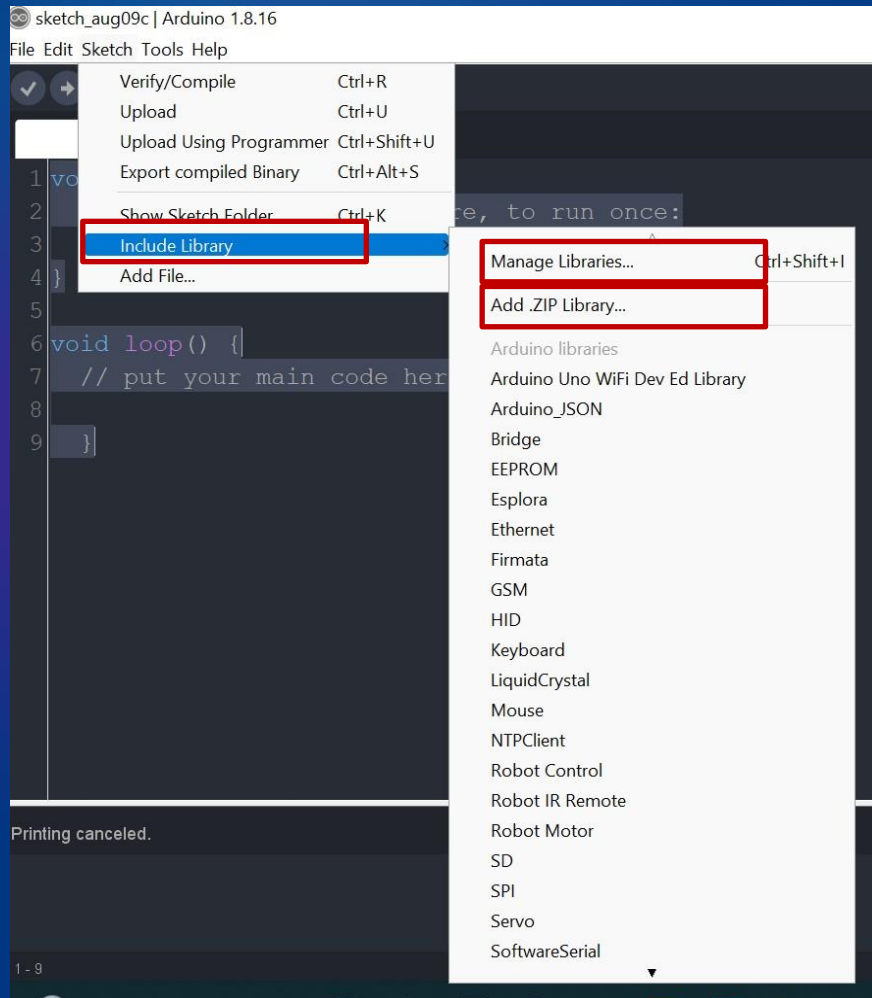
Console



Adding New Library



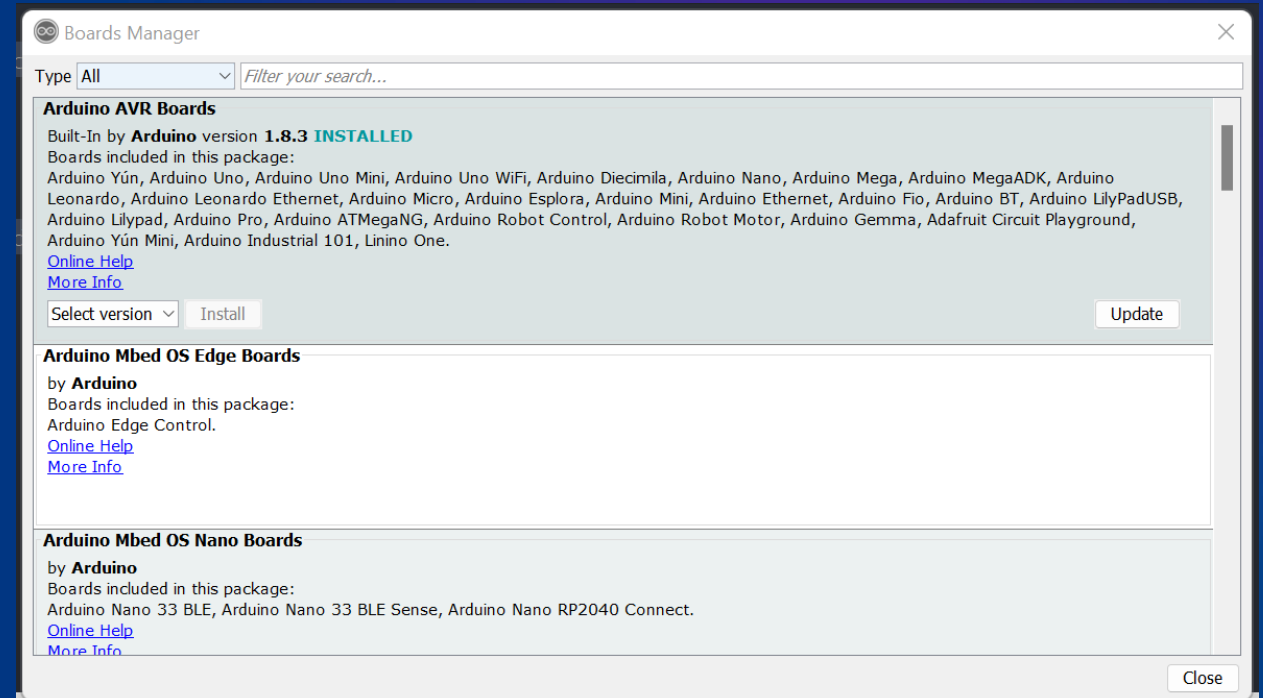
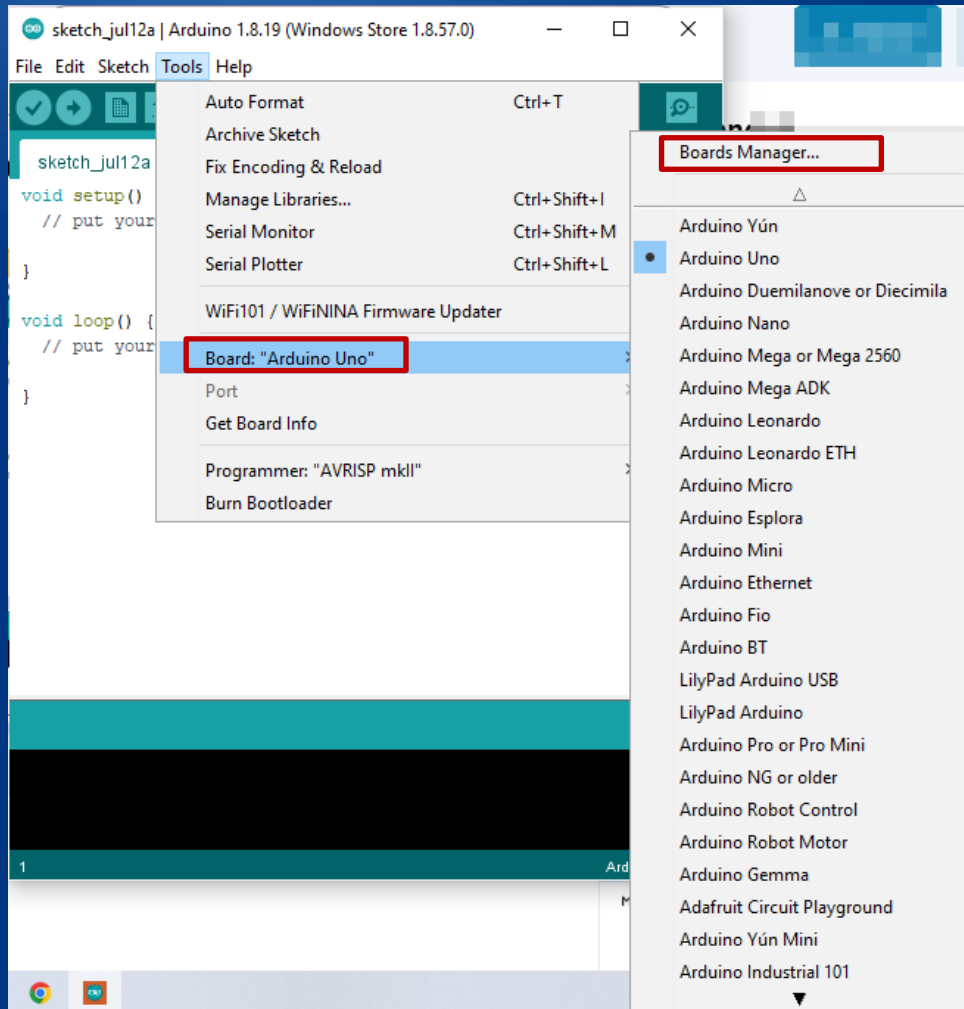
Adding Library



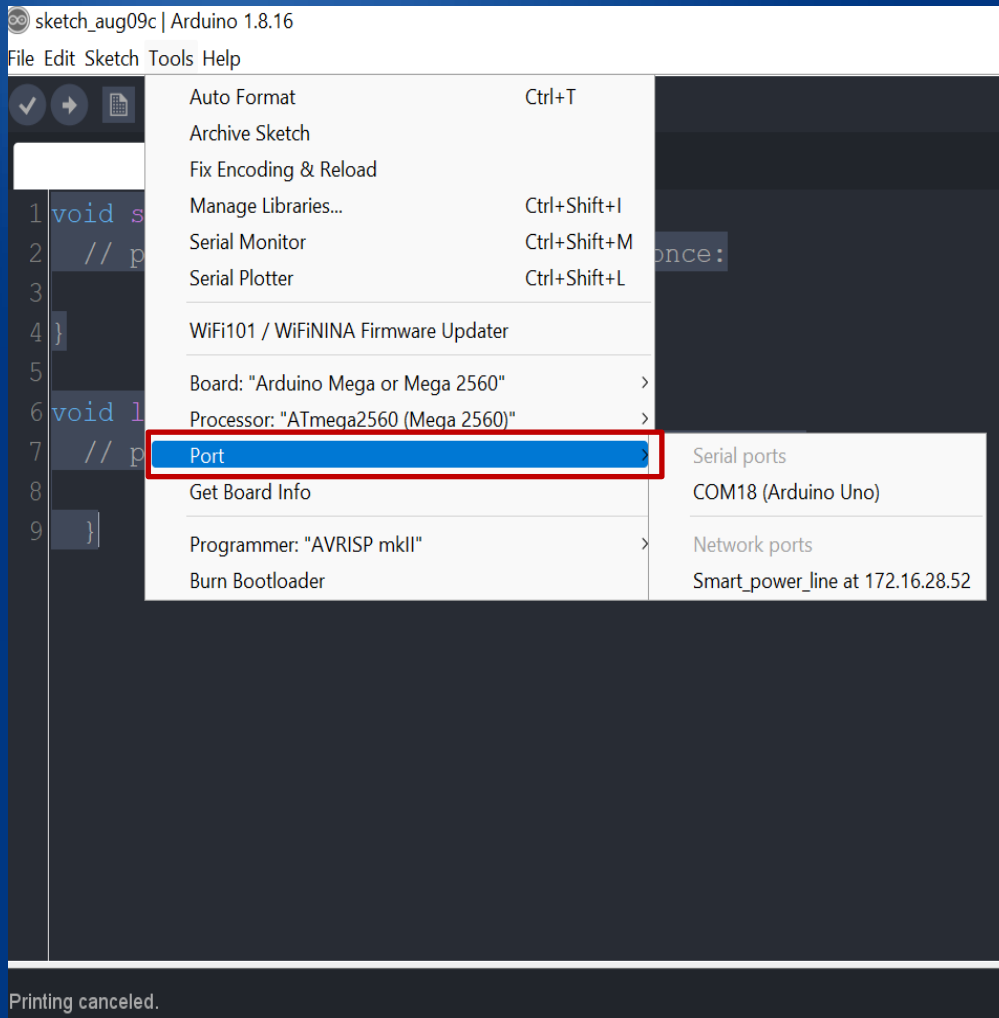
Adding Development Board



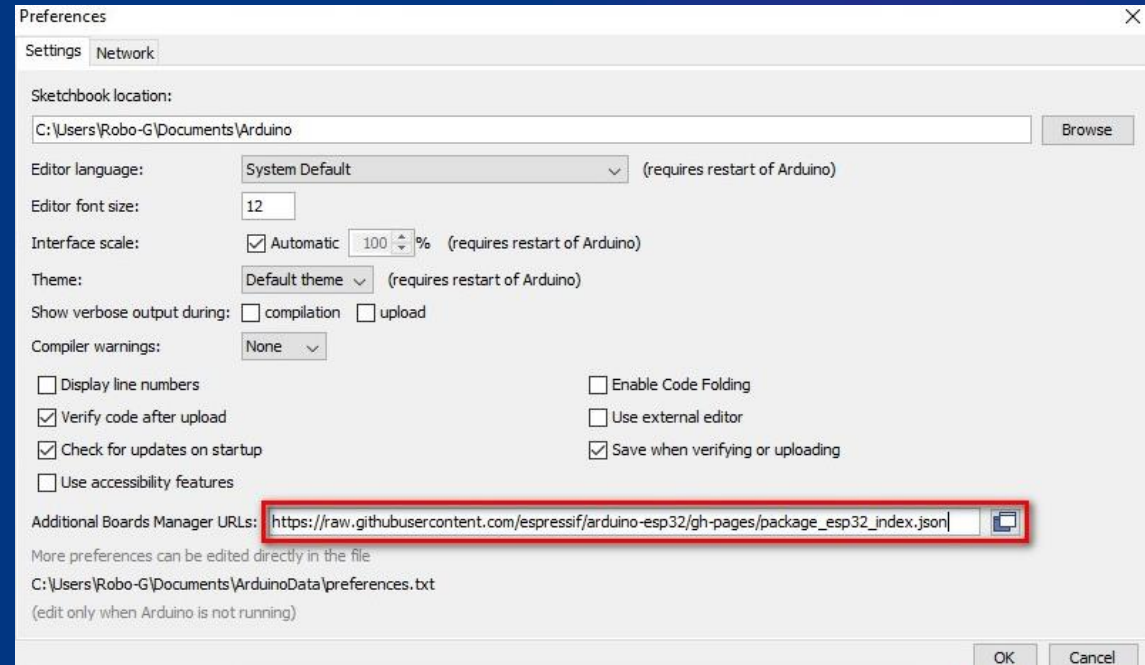
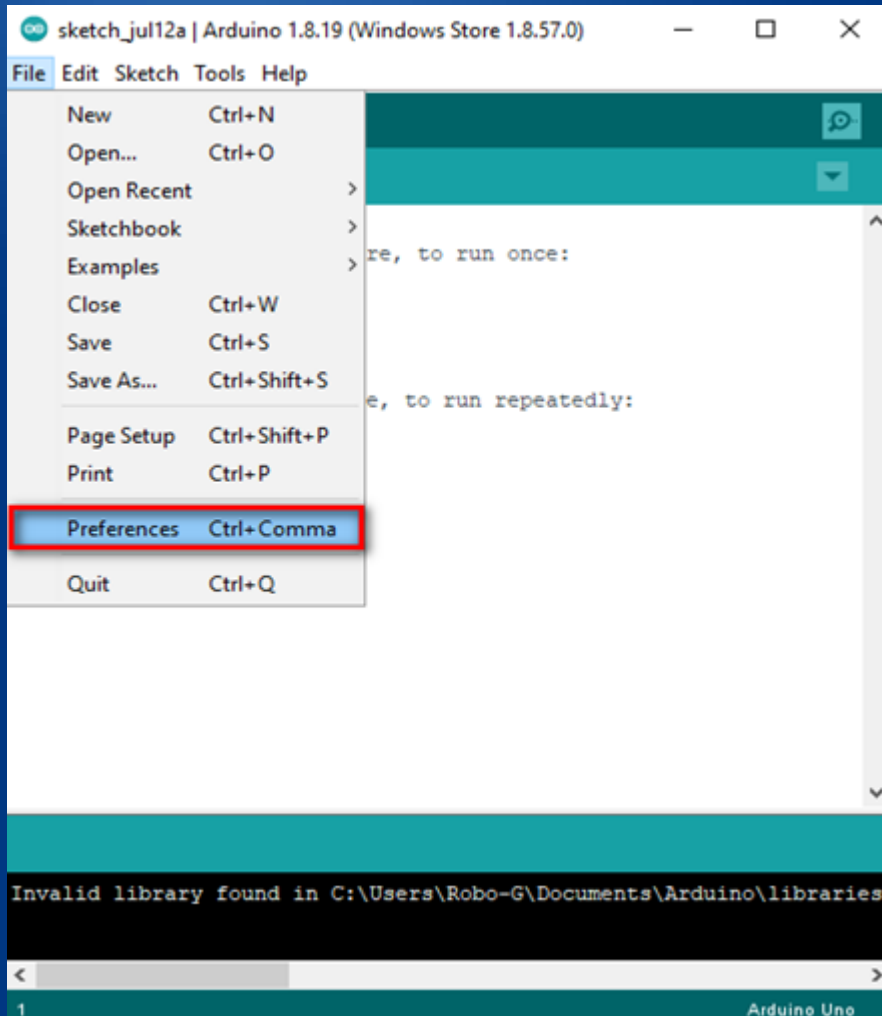
Konfigurasi Arduino Board



Pengaturan Port

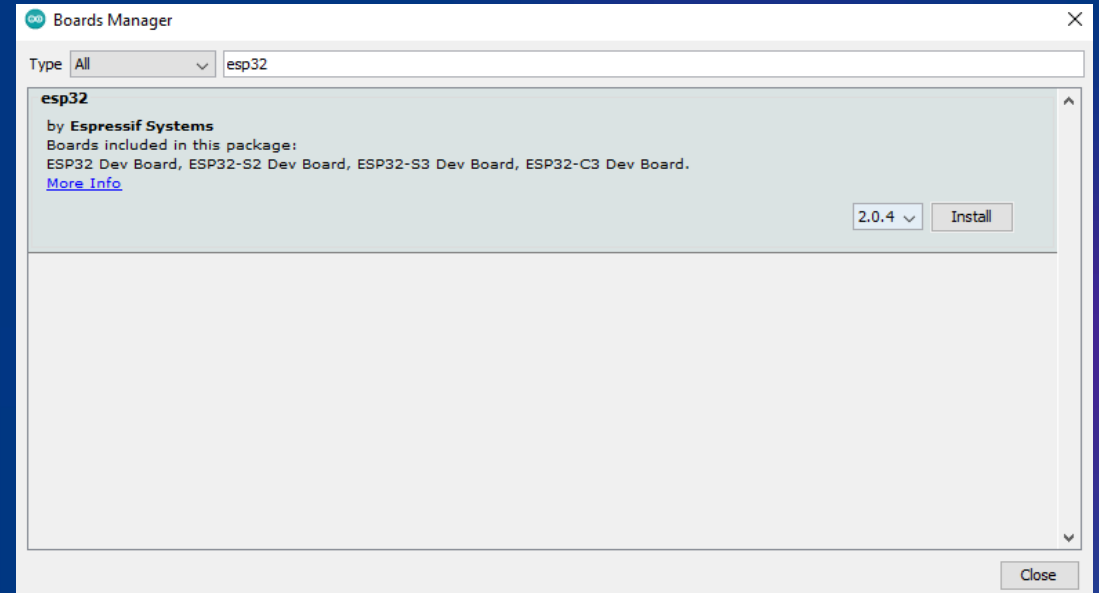
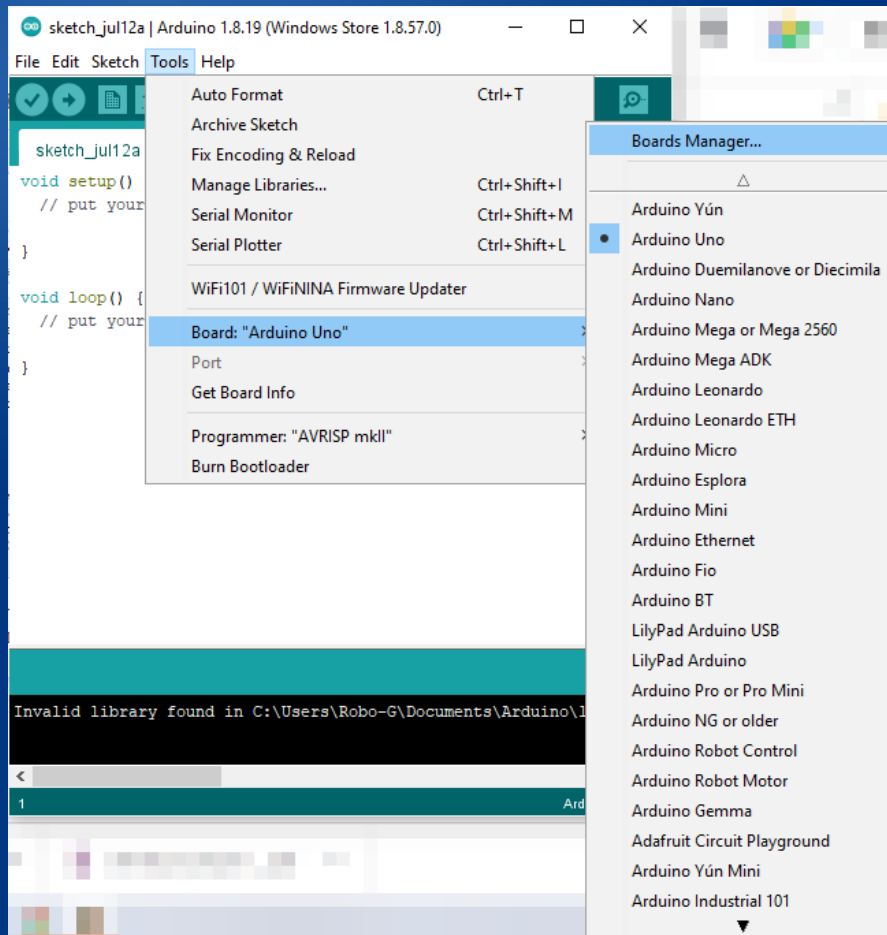


Konfigurasi ESP32 Board



Additional Board Manager :

https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json



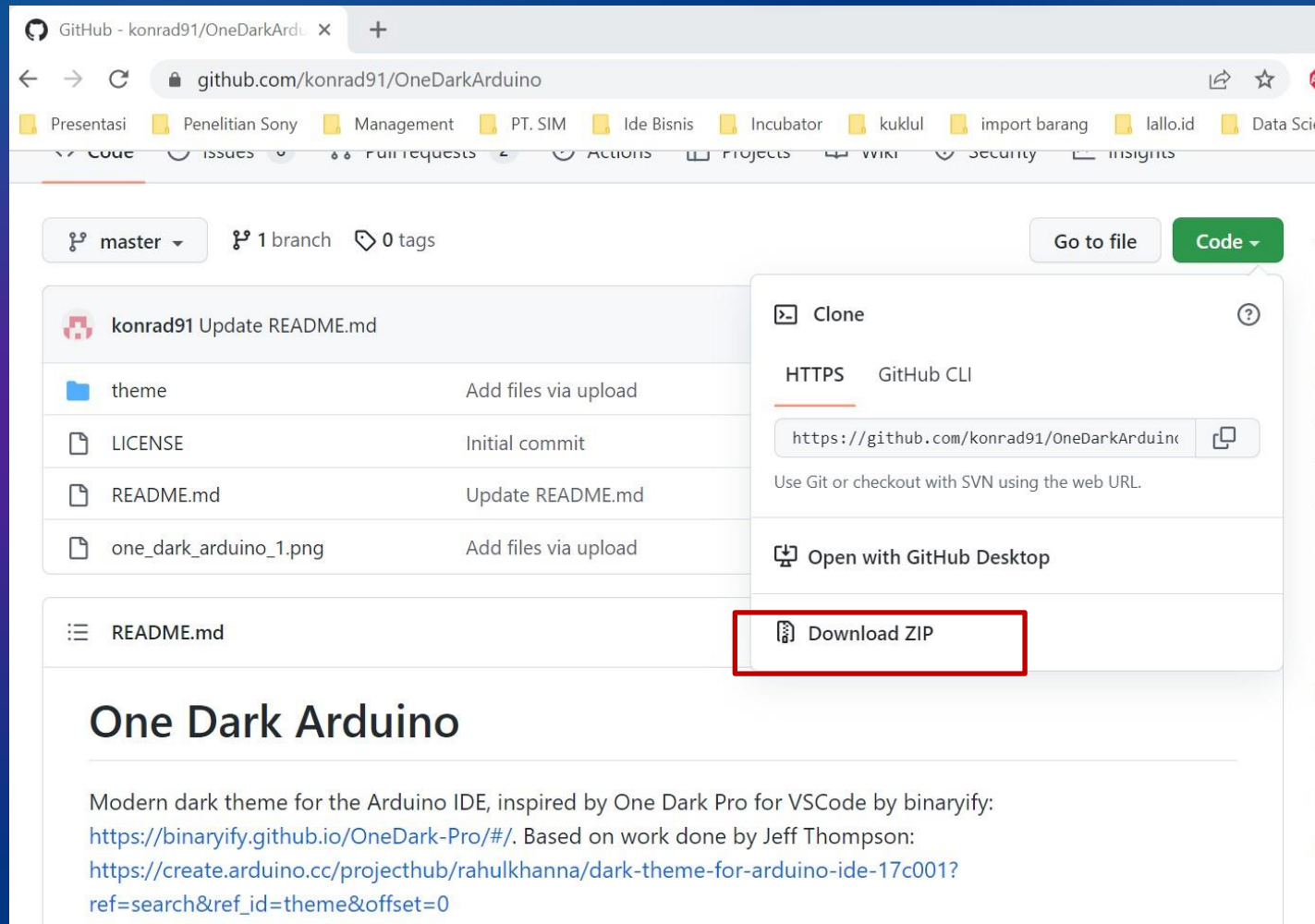
Ketik “esp32” pada form pencarian → Klik Install & tunggu hingga proses instalasi selesai → Close

Klik Tools → Board → Board Manager

Mengubah Tema Arduino IDE



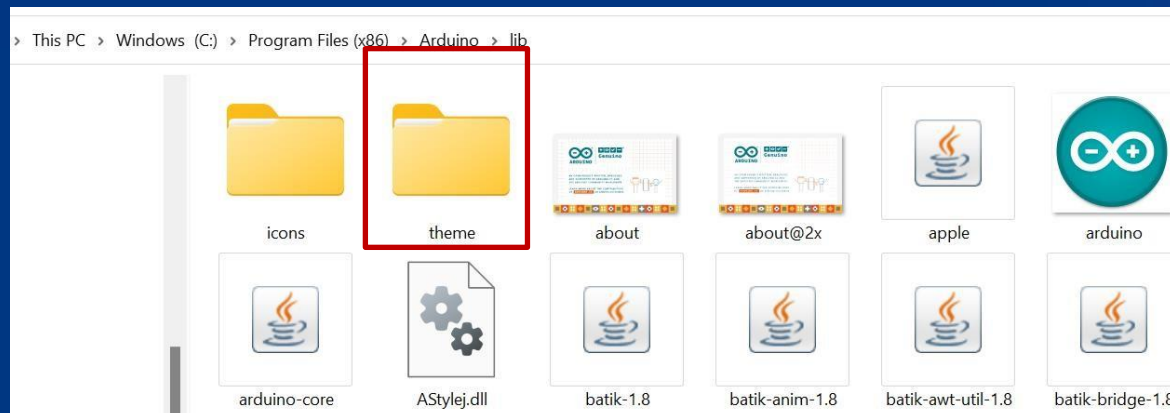
1. Link Download: <https://github.com/konrad91/OneDarkArduino>

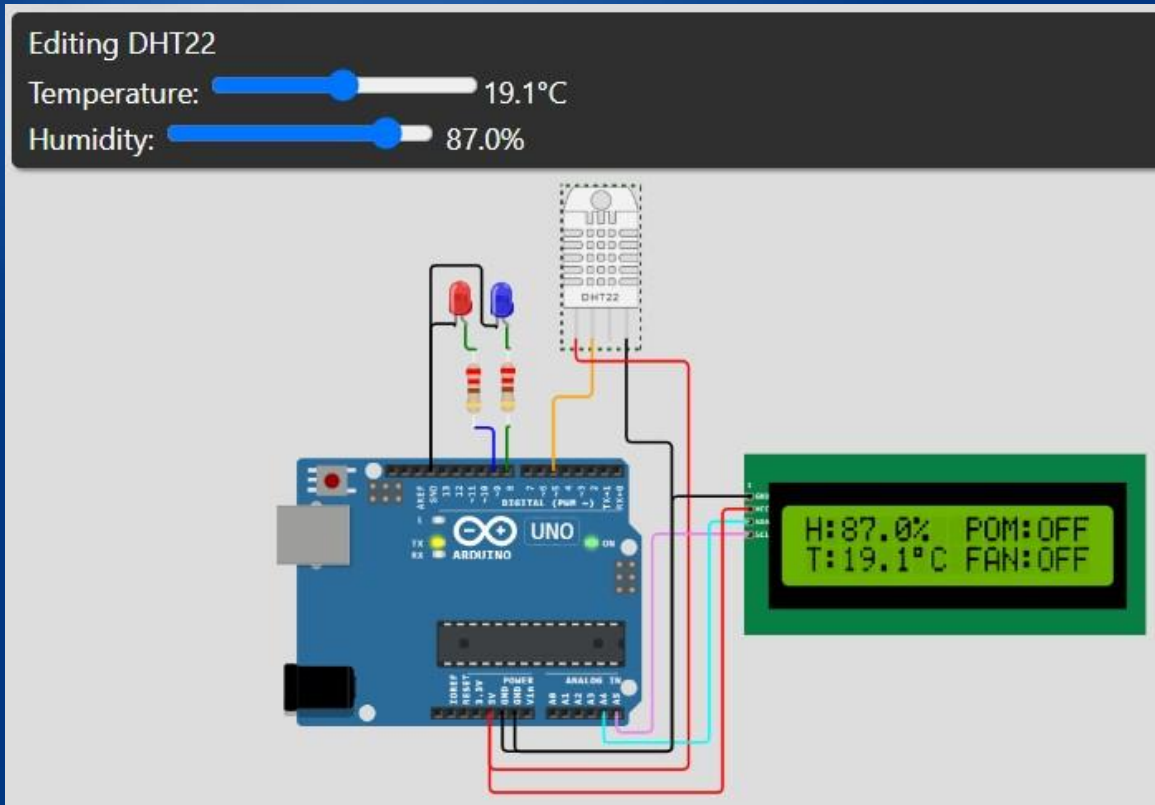


2. Extrak file zip tersebut.
3. Masuk ke dalam folder, lalu copy file folder theme.



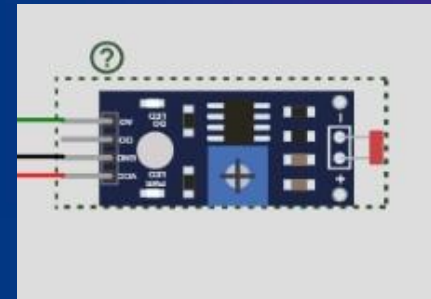
4. Pindah ke directory → C:\Program Files (x86)\Arduino\lib.
5. Replace folder theme dengan folder theme yang terbaru.





Exercise

Tambahkan Photoresistor (LDR) Sensor !



Tampilkan bacaan sensor cahaya dalam satuan LUX !

Link: <https://wokwi.com/projects/342520647938736723>

Deadline 17 Februari 2023



Link Belajar Tambahan

- <https://medium.com/@sonyalfathani>
- <https://youtu.be/R3v8kGaafHM>



Terimakasih...

☉ Mari kita diskusi...

