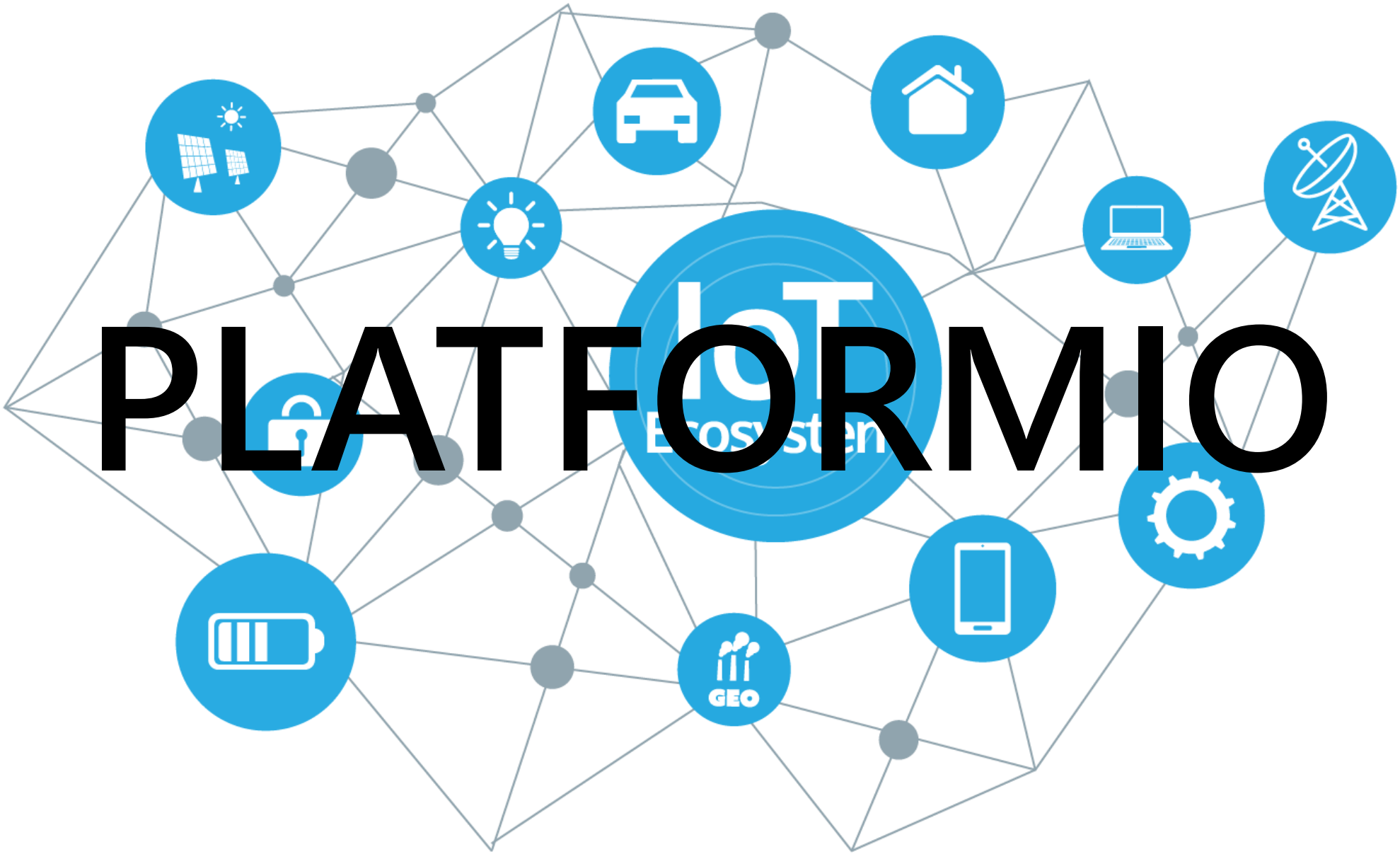
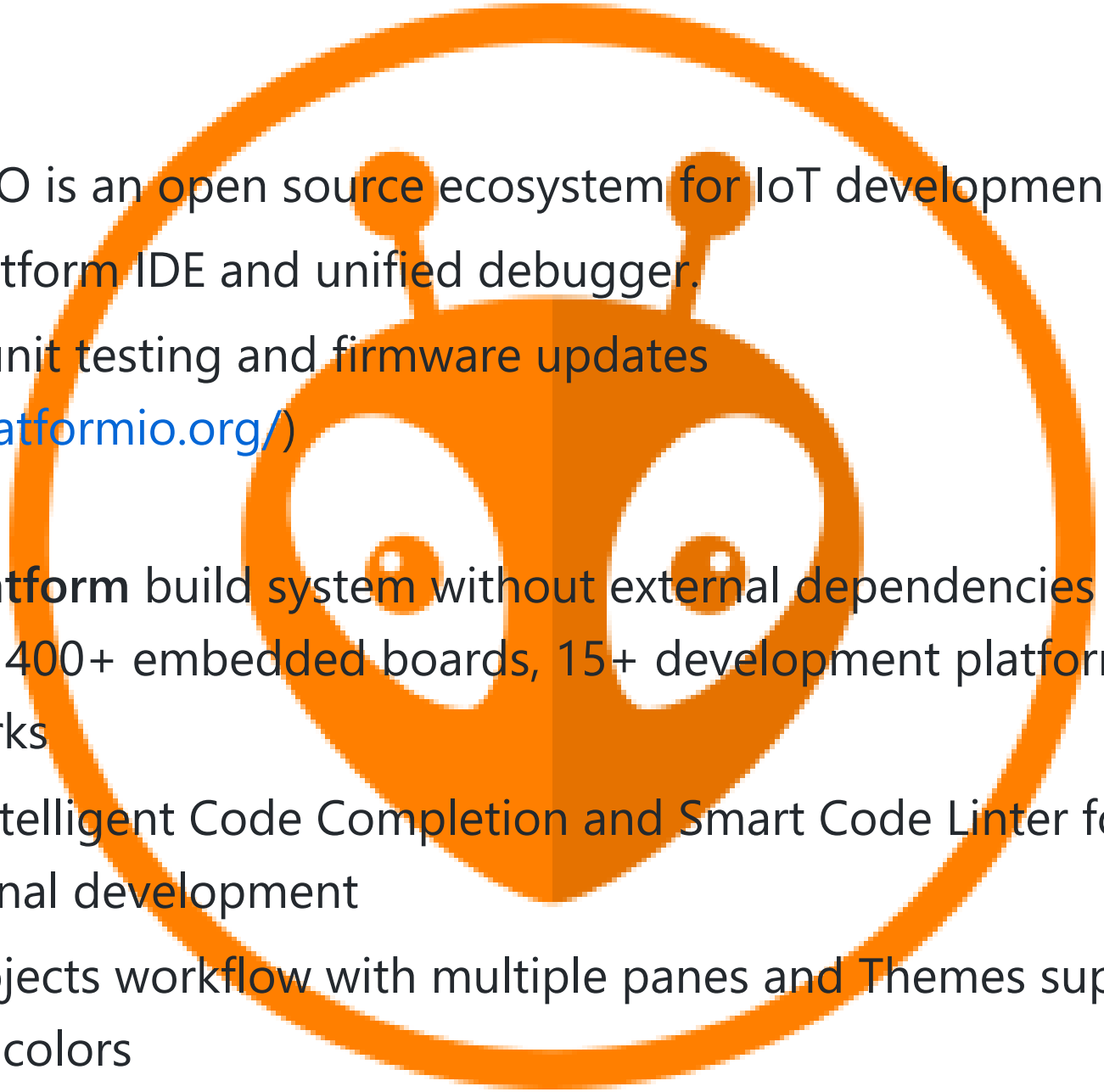


PLATFORMIO

Platformio



- **Apakah itu?**
  - PlatformIO is an open source ecosystem for IoT development
  - Cross-platform IDE and unified debugger.
  - Remote unit testing and firmware updates (http://platformio.org/)
- **Spesifikasi**
  - **Cross-platform** build system without external dependencies to the OS software: 400+ embedded boards, 15+ development platforms, 10+ frameworks
  - C/C++ Intelligent Code Completion and Smart Code Linter for rapid professional development
  - Multi-projects workflow with multiple panes and Themes support with dark and light colors
  - Built-in Terminal with PlatformIO Core and powerful Serial Port Monitor

Platformio

- **Kebutuhan Sistem**
  - OS : Windows, macOS, Linux, FreeBSD, Linux ARMv6+
  - Python Interpreter : Python 3.5 above
  - CLang Interpreter : 3.9.1 version
- **PERINGATAN**
  MATIKAN SEMUA ANTIVIRUS DAN FIREWALL SEBELUM MEMULAI INSTALASI
  SEMUA PROGRAM RUN AS ADMINISTRATOR

Embedded Development. Easier Than Ever.

PlatformIO is well suited for embedded development and has pre-configured settings for the most popular Embedded Boards.

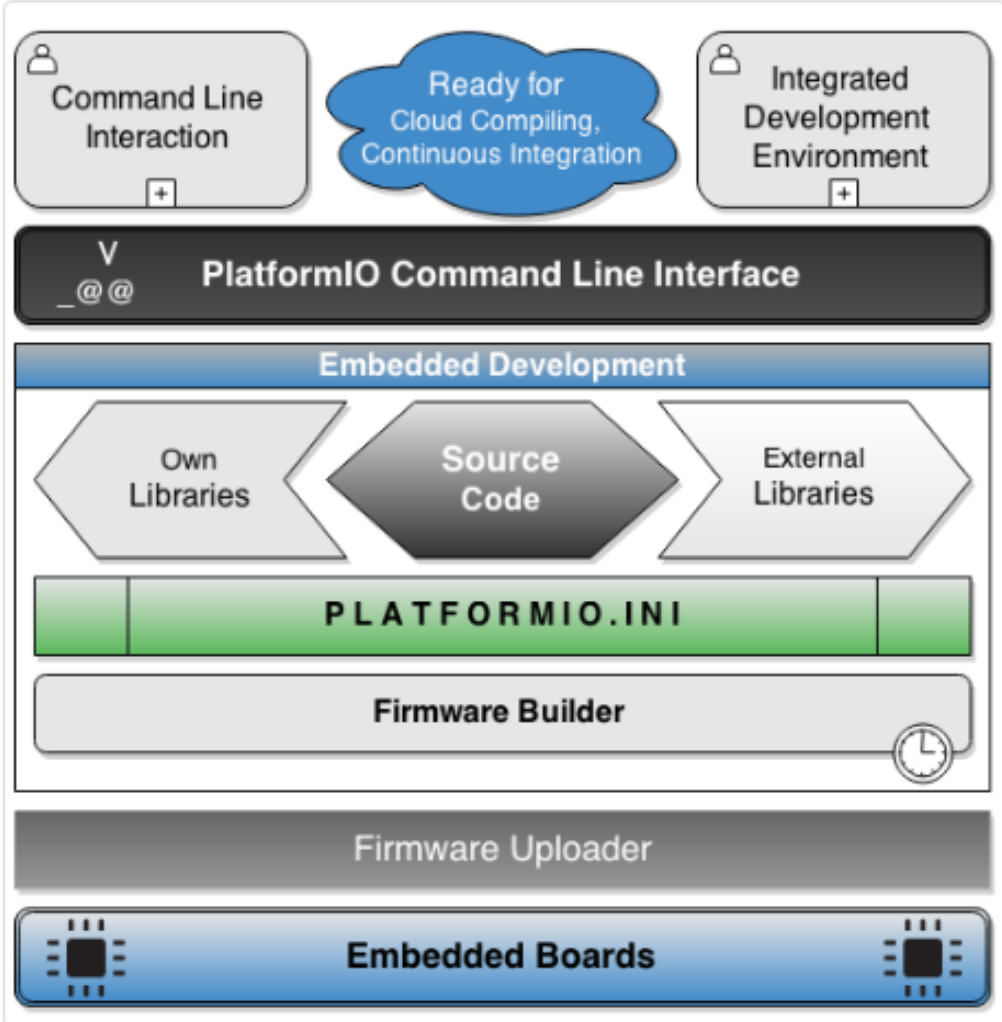
✔ **Colourful** command-line output

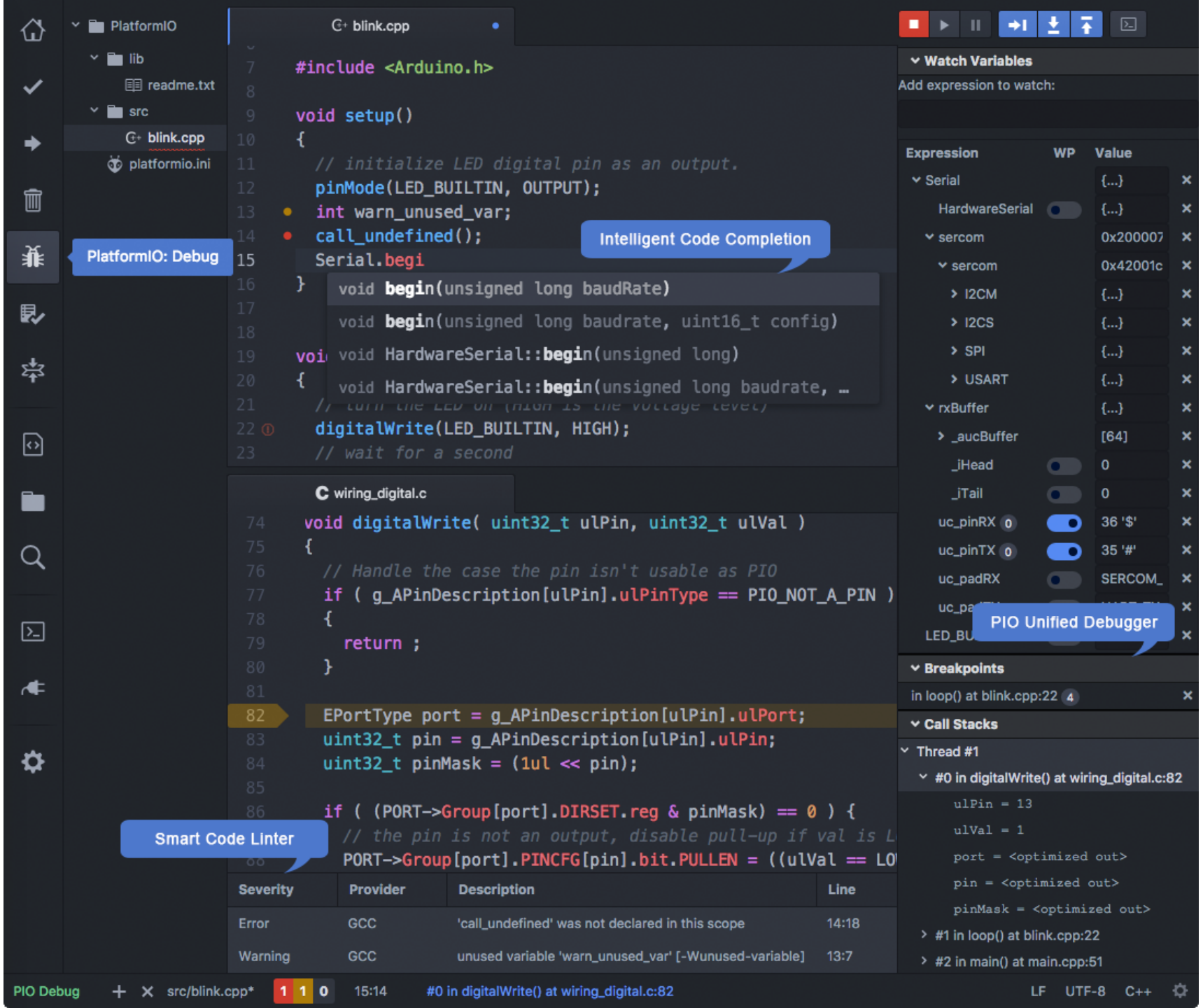
✔ IDE Integration with *Cloud9, Codeanywhere, Eclipse Che, Atom, CLion, CodeBlocks, Eclipse, Emacs, NetBeans, Qt Creator, Sublime Text, Vim, Visual Studio*

✔ Cloud compiling and Continuous Integration with *AppVeyor, Circle CI, Drone, Shippable, Travis CI*

✔ Built-in Serial Port Monitor and configurable build -flags/-options

👍 Pre-built toolchains, frameworks for the popular development platforms




PlatformIO
lib
readme.txt
src
blink.cpp
platformio.ini
blink.cpp
#include <Arduino.h>
void setup()
{
// initialize LED digital pin as an output.
pinMode(LED_BUILTIN, OUTPUT);
int warn_unused_var;
call_undefined();
Serial.begi
}
void loop()
{
digitalWrite(LED_BUILTIN, HIGH);
// wait for a second
PlatformIO: Debug
Intelligent Code Completion
void begin(unsigned long baudRate)
void begin(unsigned long baudrate, uint16_t config)
void HardwareSerial::begin(unsigned long)
void HardwareSerial::begin(unsigned long baudrate, …
wiring_digital.c
void digitalWrite(uint32_t ulPin, uint32_t ulVal)
{
// Handle the case the pin isn't usable as PIO
if (g_APinDescription[ulPin].ulPinType == PIO_NOT_A_PIN)
{
return ;
}
EPortType port = g_APinDescription[ulPin].ulPort;
uint32_t pin = g_APinDescription[ulPin].ulPin;
uint32_t pinMask = (1ul << pin);
if ((PORT->Group[port].DIRSET.reg & pinMask) == 0) {
// the pin is not an output, disable pull-up if val is L
PORT->Group[port].PINCFG[pin].bit.PULLEN = ((ulVal == LO
Smart Code Linter
Severity
Provider
Description
Line
Error
GCC
'call_undefined' was not declared in this scope
14:18
Warning
GCC
unused variable 'warn_unused_var' [-Wunused-variable]
13:7
Watch Variables
Add expression to watch:
Expression
WP
Value
Serial
HardwareSerial
sercom
sercom
I2CM
I2CS
SPI
USART
rxBuffer
_aucBuffer
_iHead
_iTail
uc_pinRX 0
uc_pinTX 0
uc_padRX
PIO Unified Debugger
Breakpoints
in loop() at blink.cpp:22 4
Call Stacks
Thread #1
#0 in digitalWrite() at wiring_digital.c:82
ulPin = 13
ulVal = 1
port = <optimized out>
pin = <optimized out>
pinMask = <optimized out>
#1 in loop() at blink.cpp:22
#2 in main() at main.cpp:51
PIO Debug
src/blink.cpp*
15:14
#0 in digitalWrite() at wiring_digital.c:82
LF
UTF-8
C++

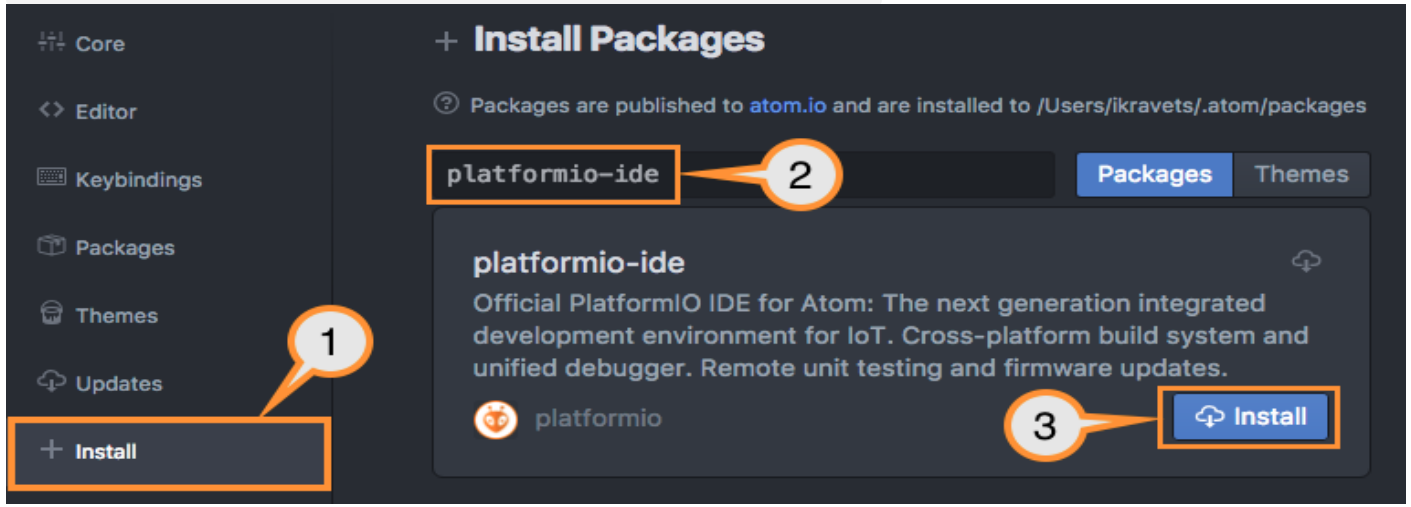
Platformio + Atom Editor

1. Install Python 3.7.9 (32bit atau 64bit sesuaikan OS Anda)
   https://www.python.org/downloads/release/python-379/
2. Install CLang 3.9.1 (**Install di path tanpa spasi. Restart PC Anda**)
   http://releases.llvm.org/download.html

Platformio + Atom Editor

3. Install Atom Editor. Pilih portable version saja
   https://github.com/atom/atom/releases/download/v1.54.0/atom-windows.zip
4. Install Platformio

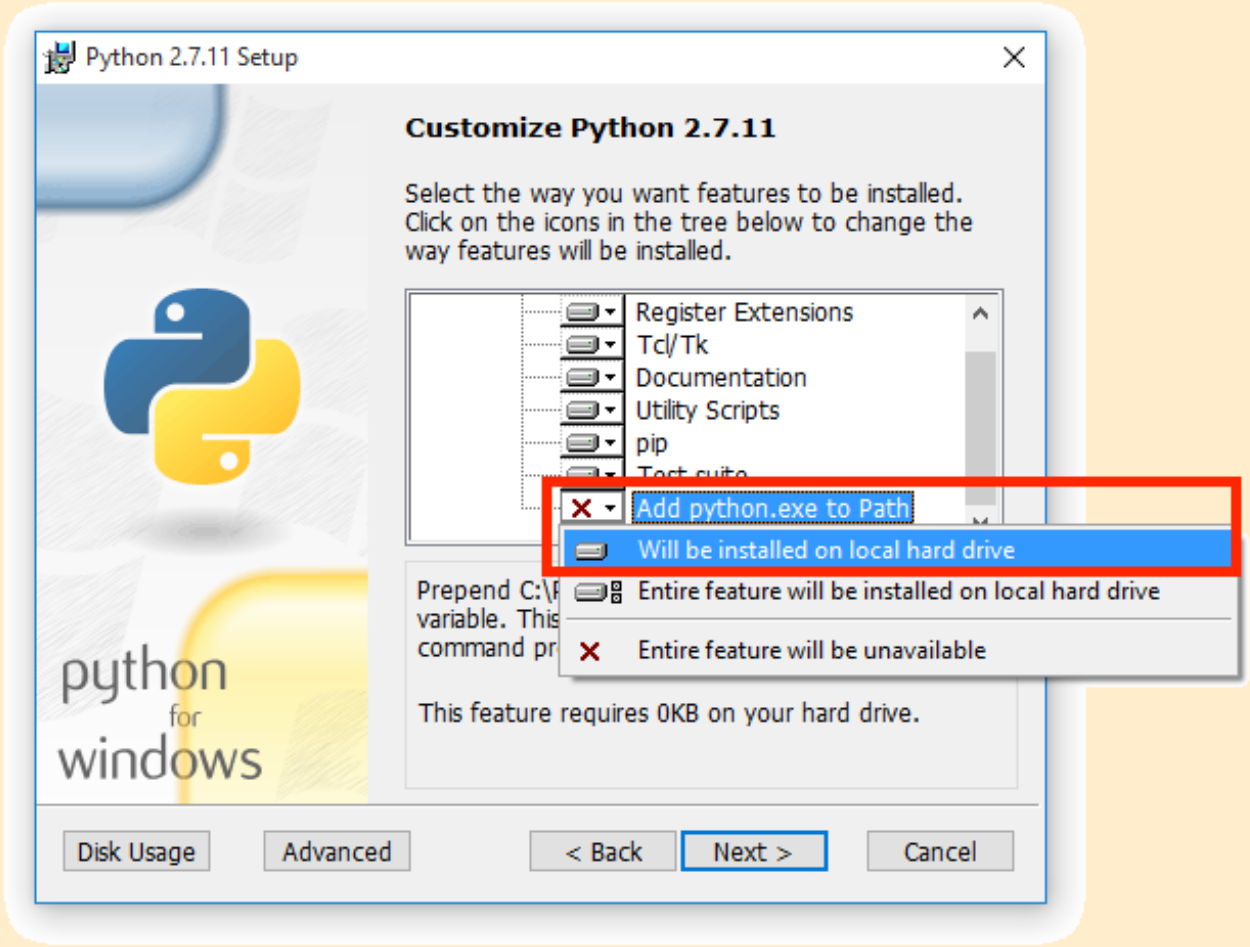
```
Menu: File > Settings > Install
```



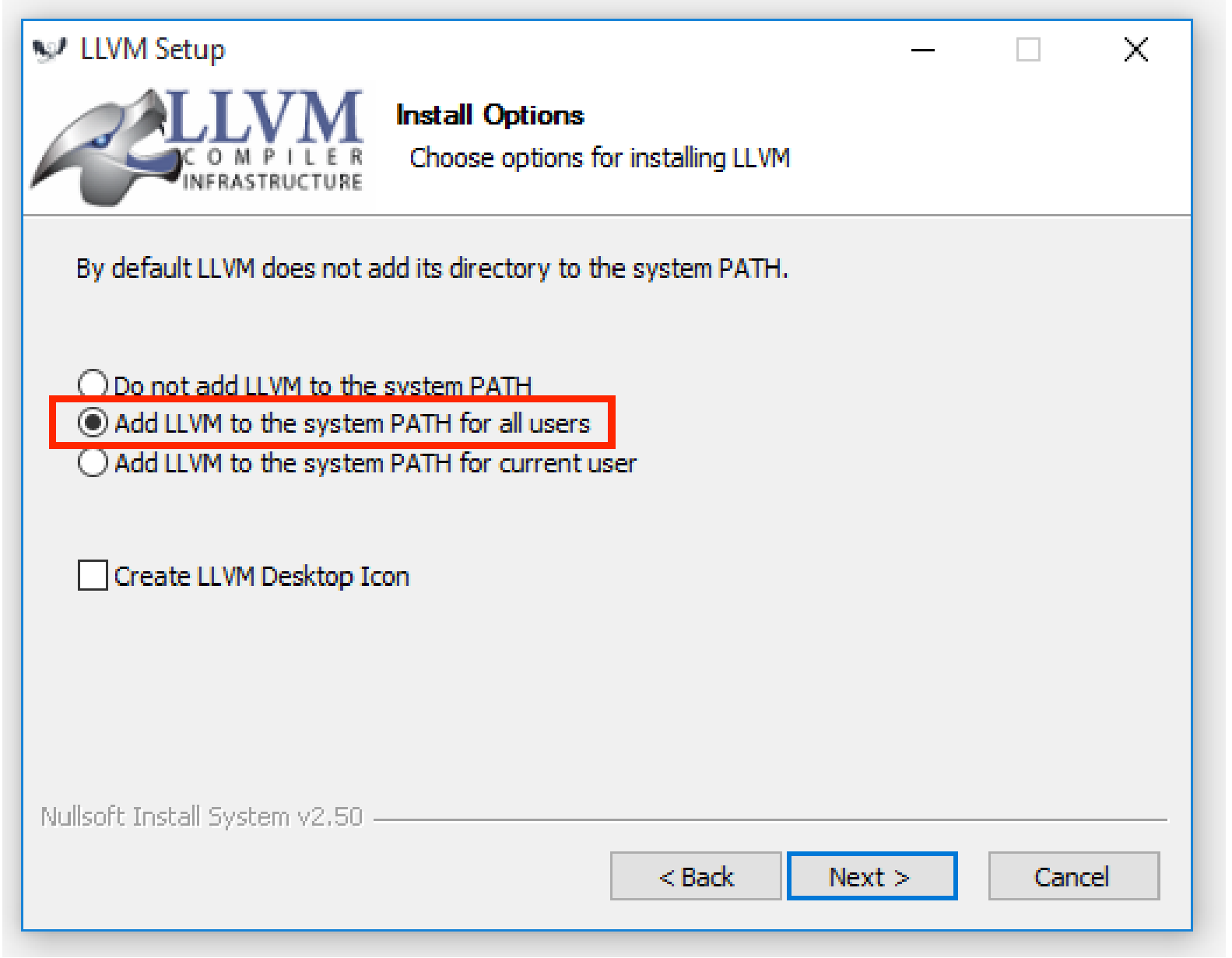
Jangan lupa ini!

Attention

Windows Users: Please Download the latest Python 2.7 and install it. **DON'T FORGET** to select `Add python.exe to Path` feature on the "Customize" stage, otherwise Python Package Manager `pip` command will not be available.



Jangan lupa ini!



Driver CP2102

1. Download dan *install* dari :

https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

Driver CH340G

1. Download dan *install* dari :

https://kelasrobot.com/cara-install-usb-driver-ch340g-ch340-untuk-arduino/
https://www.dropbox.com/s/q0u00s6yd4bhw8w/USB Driver CH340G.rar?dl=0

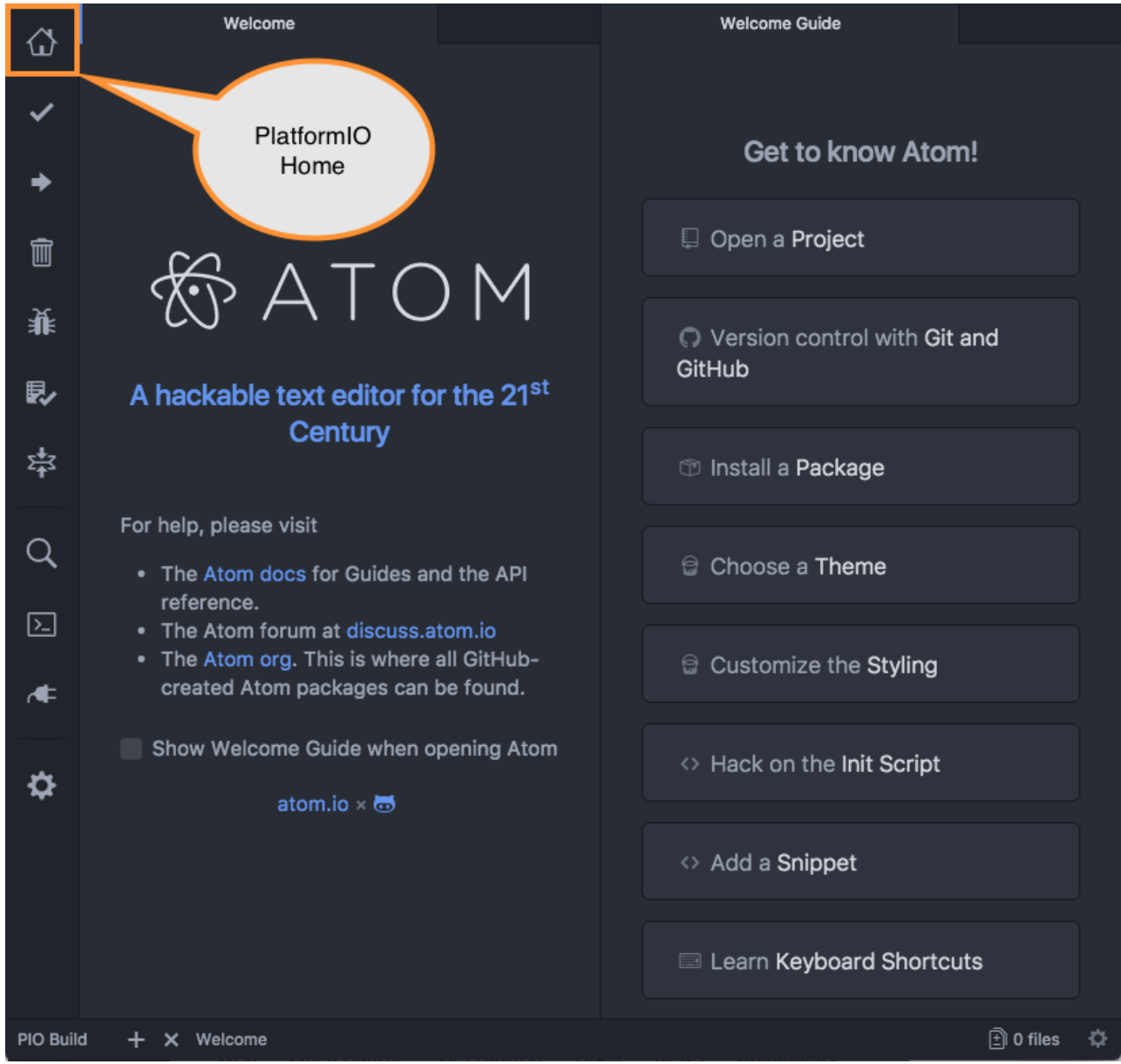
SDK ARDUINO ESP8266 PLATFORMIO

- Proses instalasinya lama banget,hehehehe....
- Instruktur akan memberikan file SDK dalam format **zip**
- Ekstrak ke folder di PC Anda. **Nama folder tidak boleh ada spasi!!!**
- Misal : **D:\PIO**


STOP

Platformio Quick Start

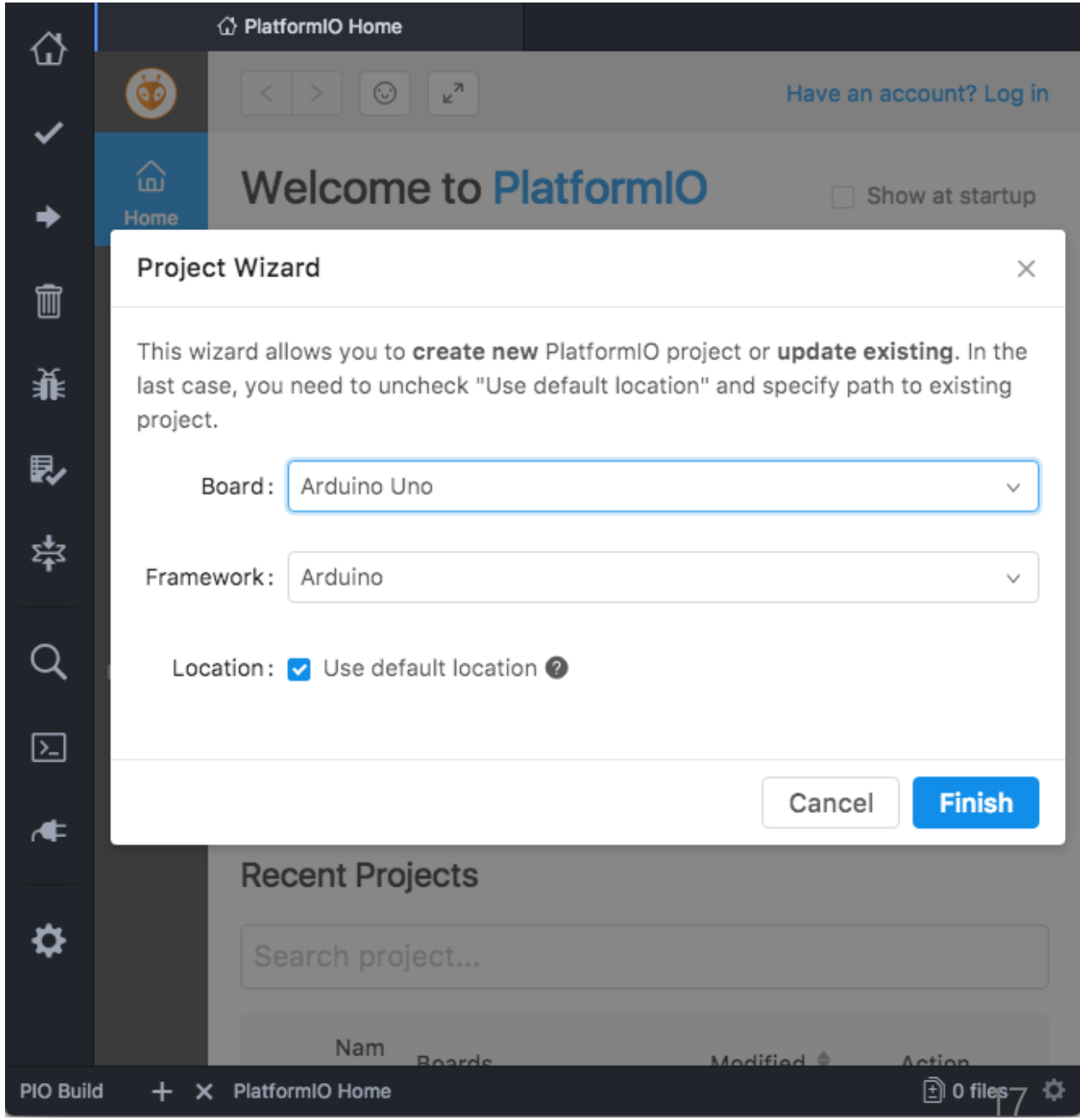
1. Jalankan Atom, Platformio akan mulai terbuka. Harap bersabar bagi yang *low spec* PC



Platformio Quick Start

2. Klik **New Project**, pilih nama modulnya (Nodemcu v1.0), dan finish

3. Tunggu sampai selesai instalasi SDK-nya dan software pendukungnya. **SANGAT LAMA KETIKA PERTAMA KALI**. Silakan ngopi dulu ^_^

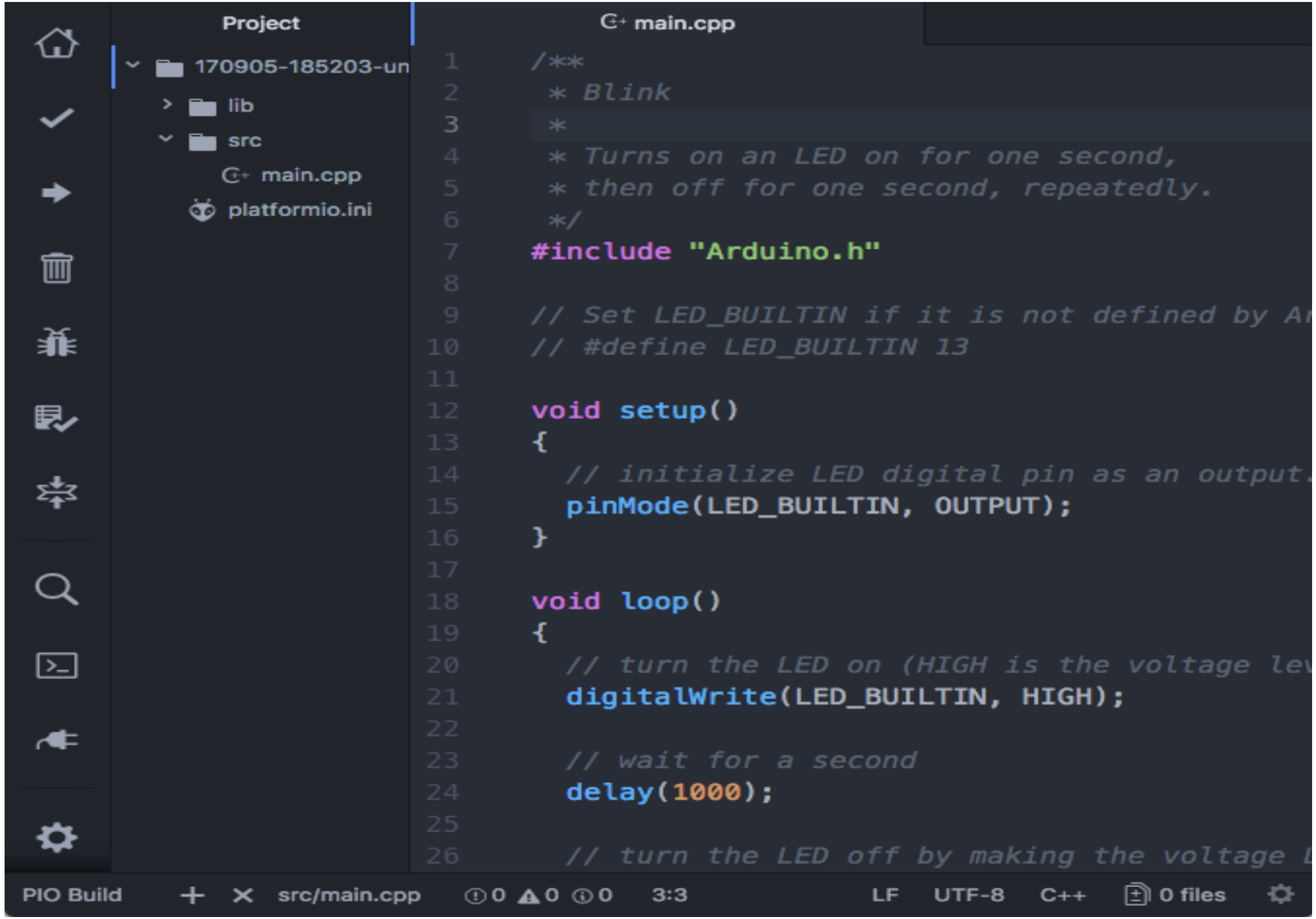


Platformio Quick Start

4. Buat file baru di folder **src** , misal : *main.cpp*

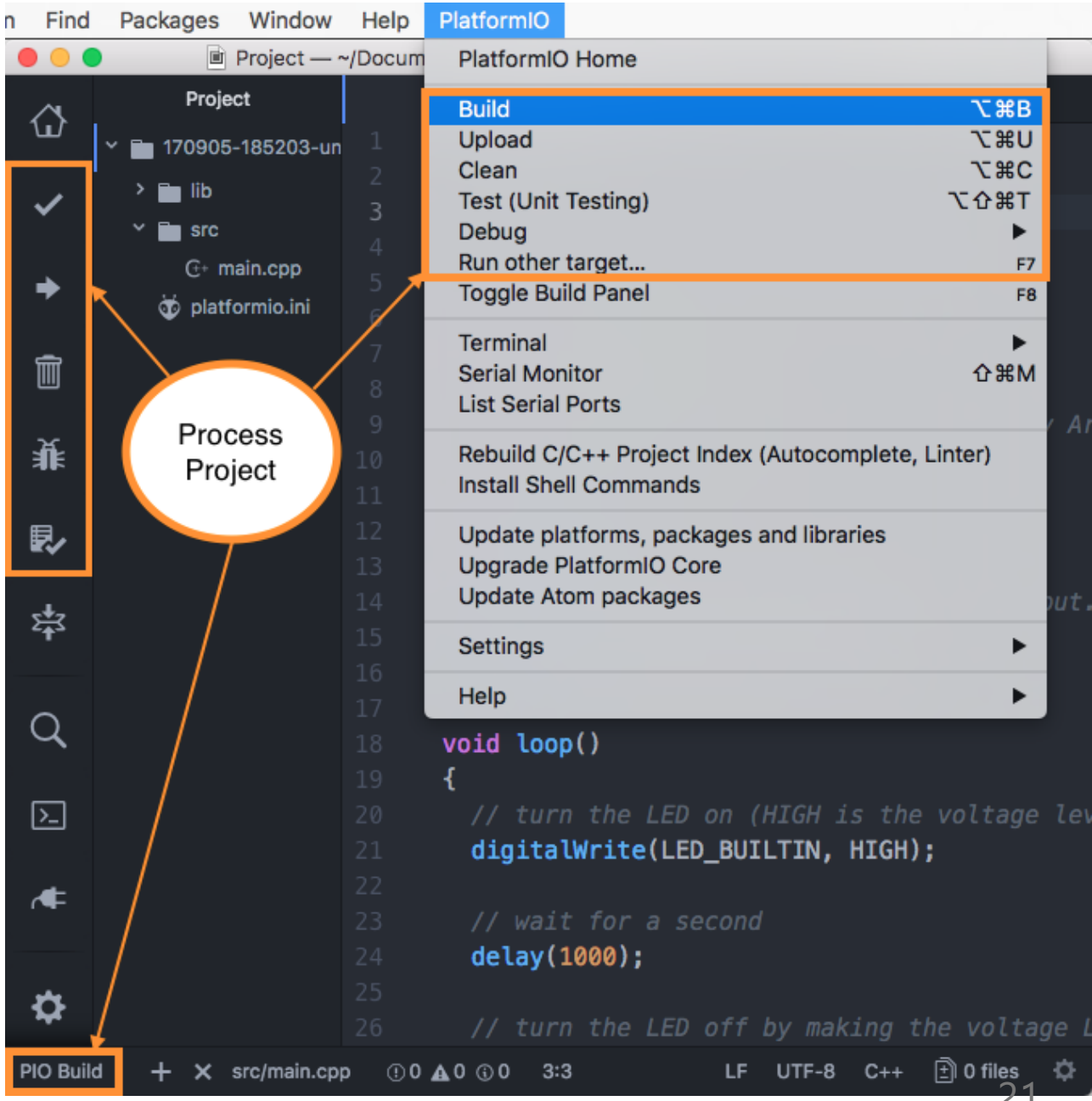
```
/**
 * Blink
 *
 * Turns on an LED on for one second,
 * then off for one second, repeatedly.
 */
#include <Arduino.h>

// Set LED_BUILTIN if it is not defined by Arduino framework
// #define LED_BUILTIN 13

void setup()
{
        Serial.begin(57600);

  // initialize LED digital pin as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}
```

```
void loop()
{
  // turn the LED on (HIGH is the voltage level)
  digitalWrite(LED_BUILTIN, HIGH);

  // wait for a second
  delay(1000);

  // turn the LED off by making the voltage LOW
  digitalWrite(LED_BUILTIN, LOW);

   // wait for a second
  delay(1000);

  Serial.println(millis());
}
```

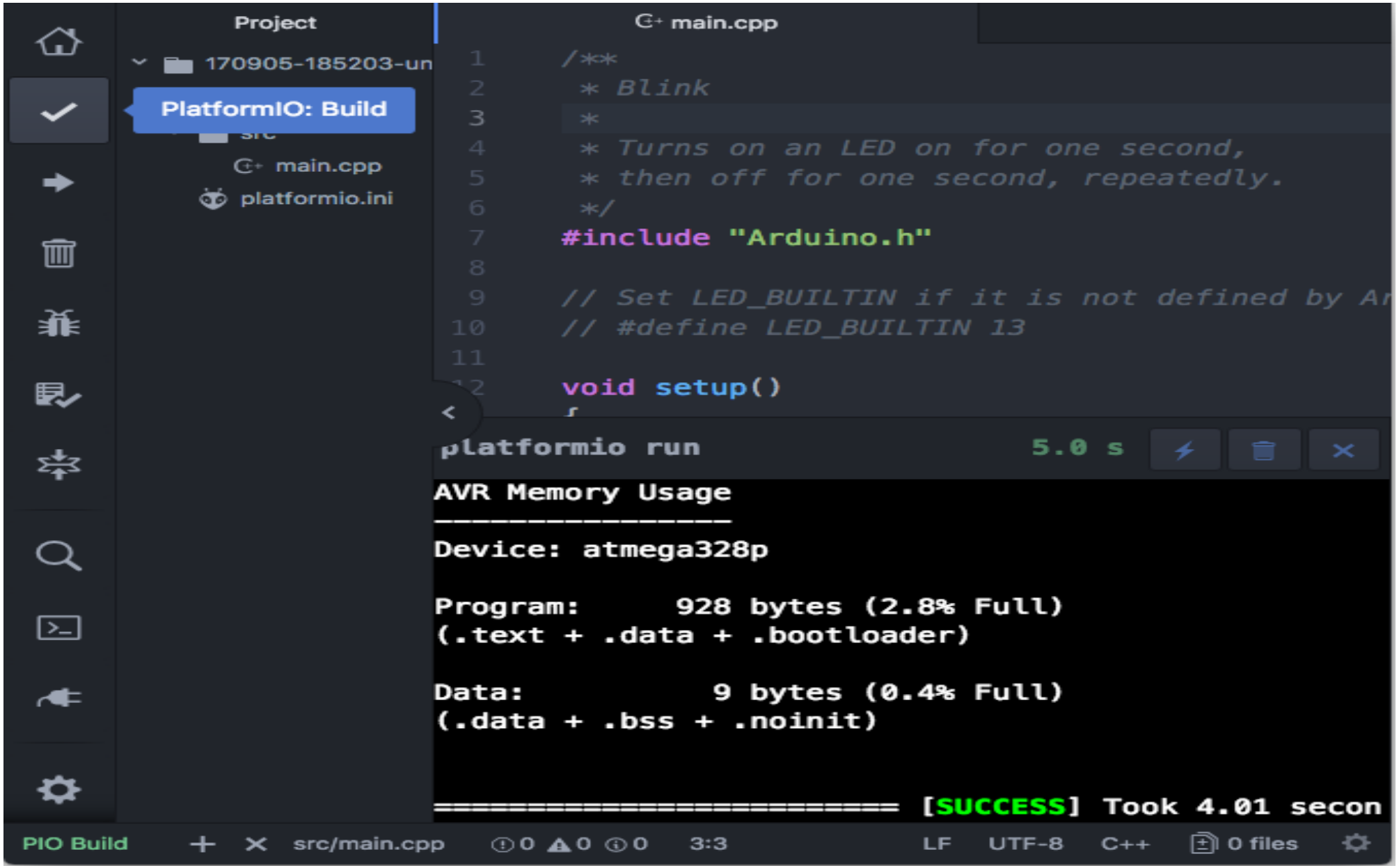

Project
170905-185203-un
lib
src
main.cpp
platformio.ini
main.cpp
/**
* Blink
*
* Turns on an LED on for one second,
* then off for one second, repeatedly.
*/
#include "Arduino.h"
// Set LED_BUILTIN if it is not defined by Ar
// #define LED_BUILTIN 13
void setup()
{
// initialize LED digital pin as an output.
pinMode(LED_BUILTIN, OUTPUT);
}
void loop()
{
// turn the LED on (HIGH is the voltage lev
digitalWrite(LED_BUILTIN, HIGH);
// wait for a second
delay(1000);
// turn the LED off by making the voltage L
PIO Build
src/main.cpp
0 0 0
3:3
LF
UTF-8
C++
0 files

Platformio Quick Start

5. Kompile dan upload kode di atas via menu **Build**, **Upload**

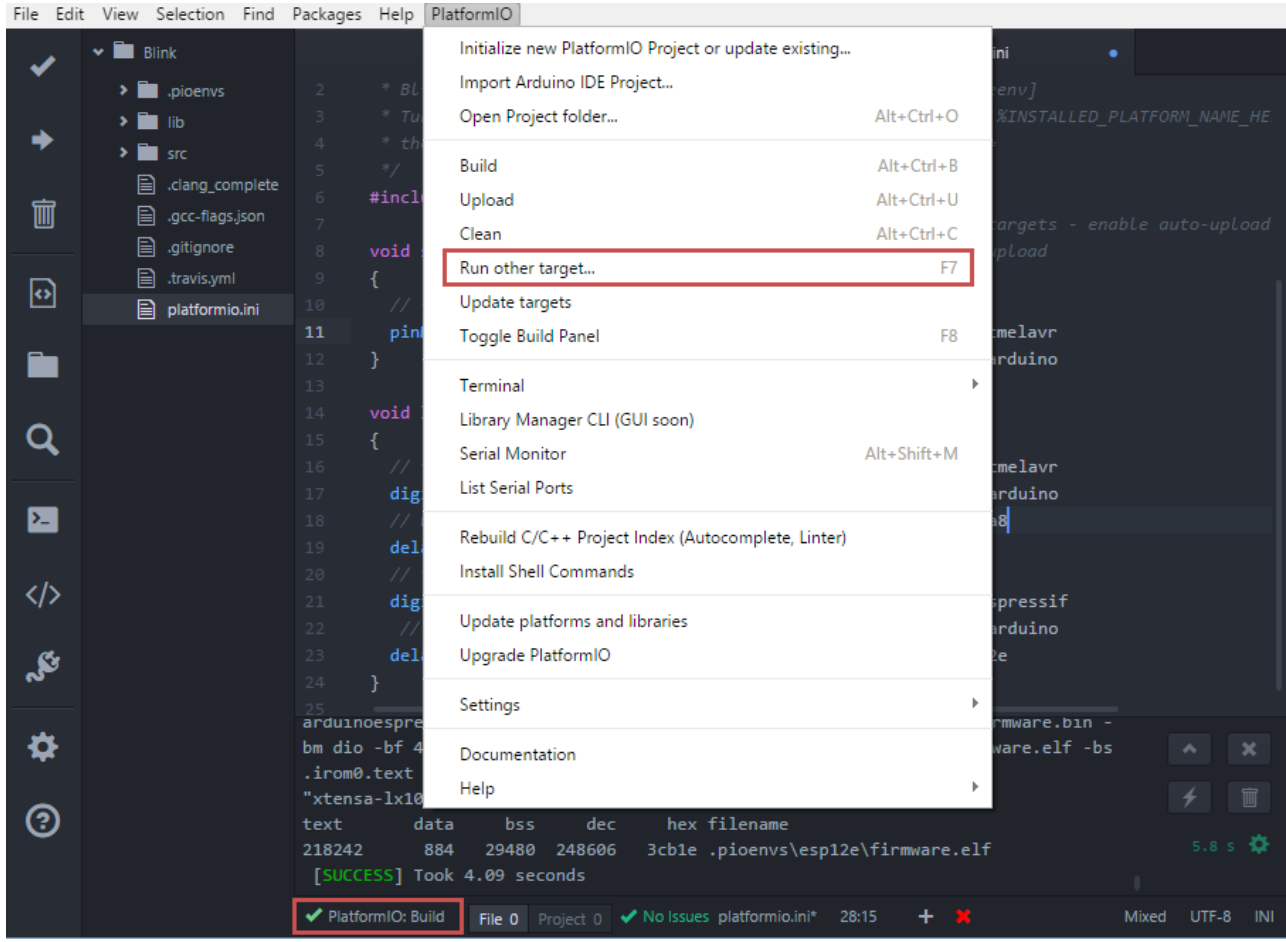


Platformio Quick Start



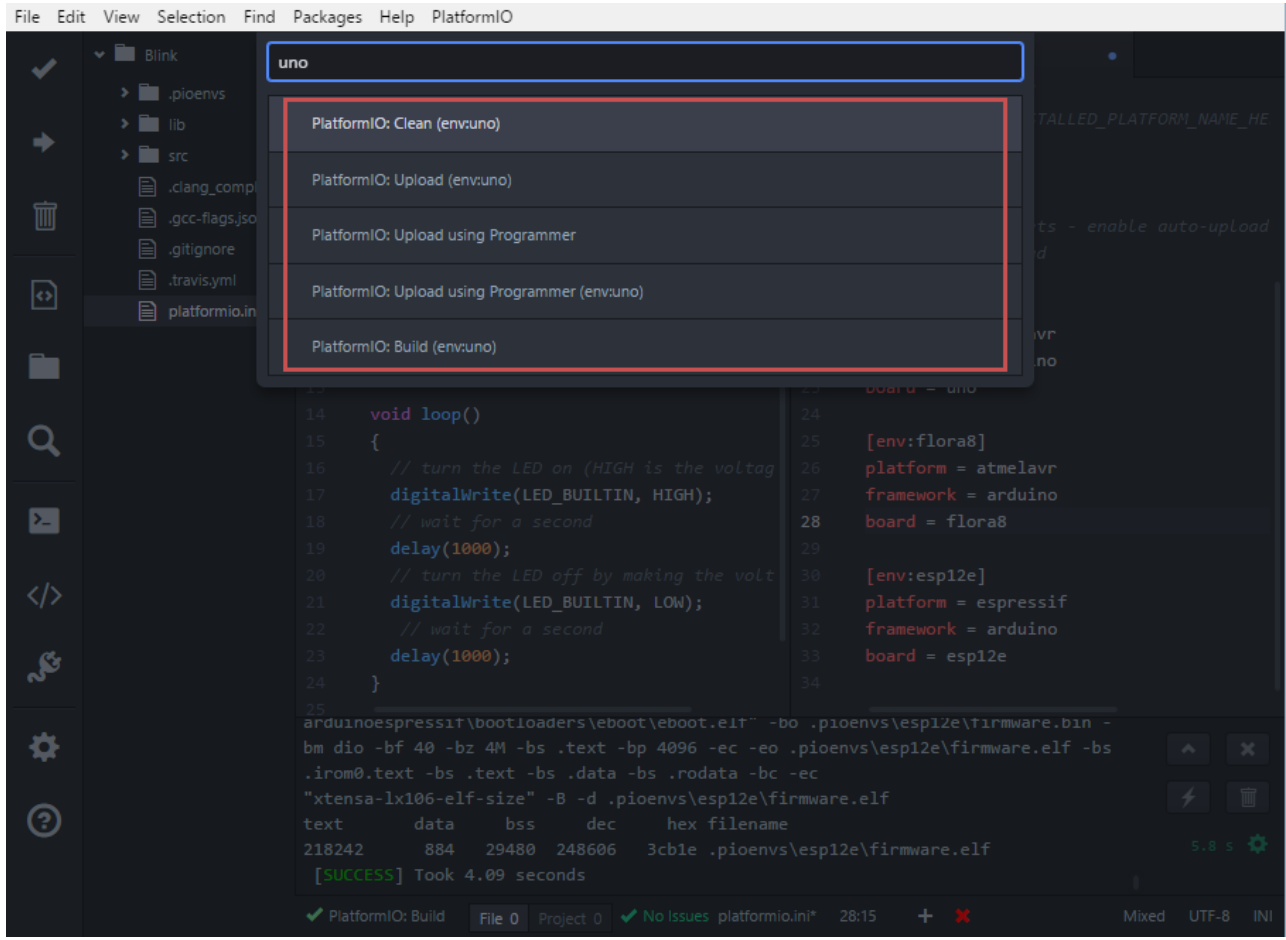
Platformio Quick Start

6. Untuk target dan opsi lainnya maka tekan tombol **F7**



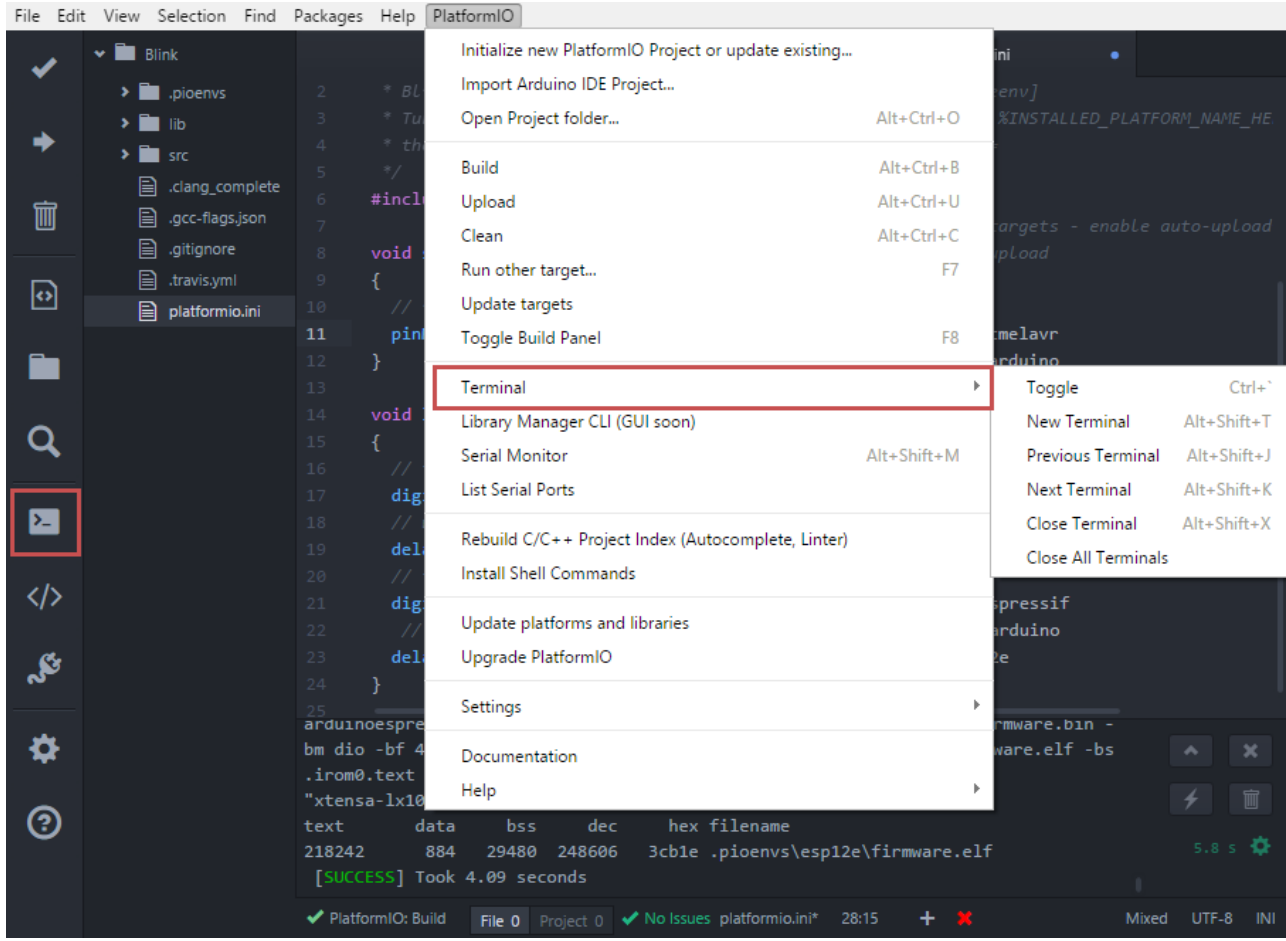
Platformio Quick Start

7. Pilih dan jalankan sesuai keinginan Anda. **Ini di versi baru tidak muncul kalau di Atom** 😕

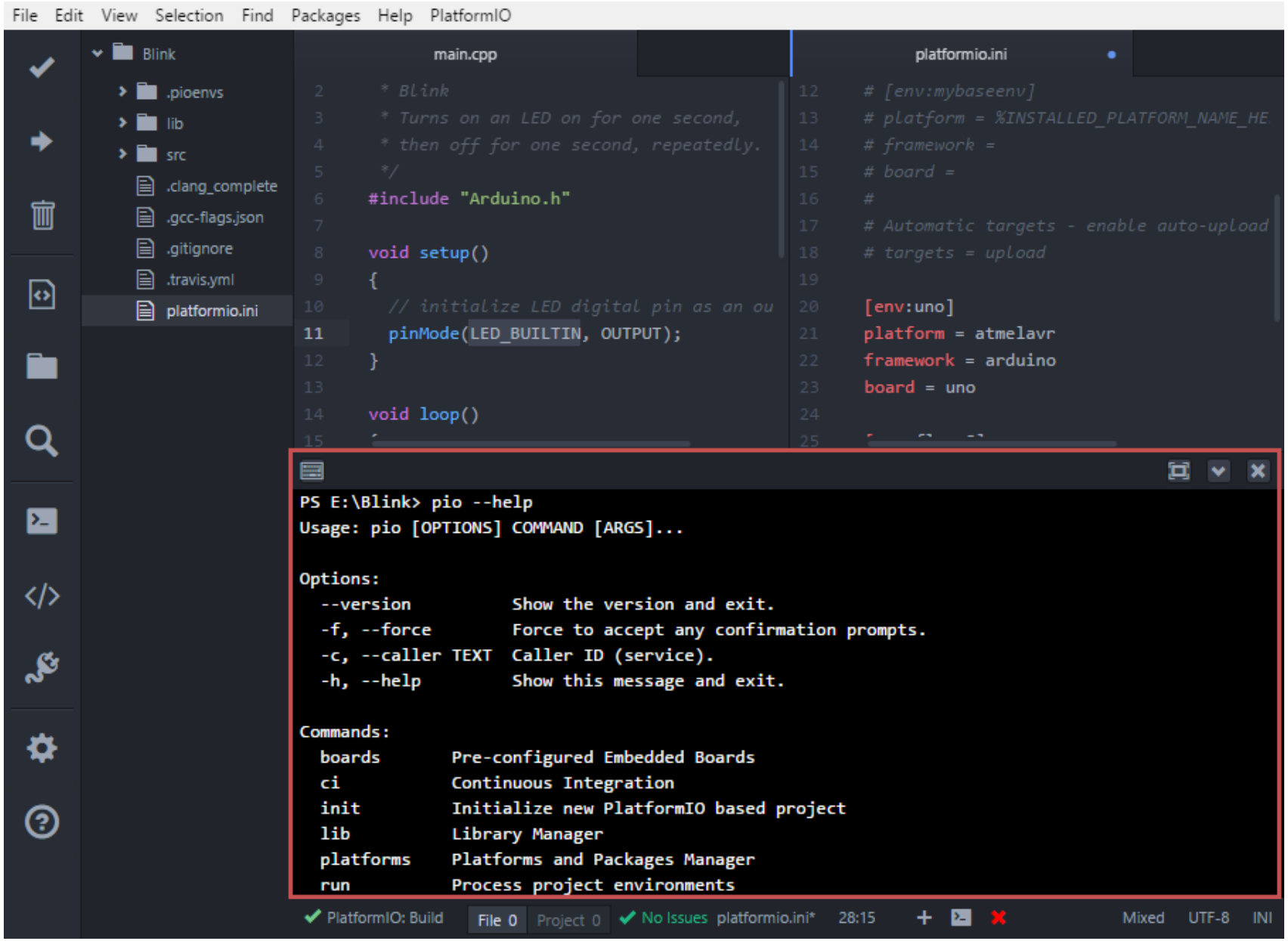


Platformio Quick Start

8. Untuk kebutuhan yang lebih maka pergunakan **Terminal**

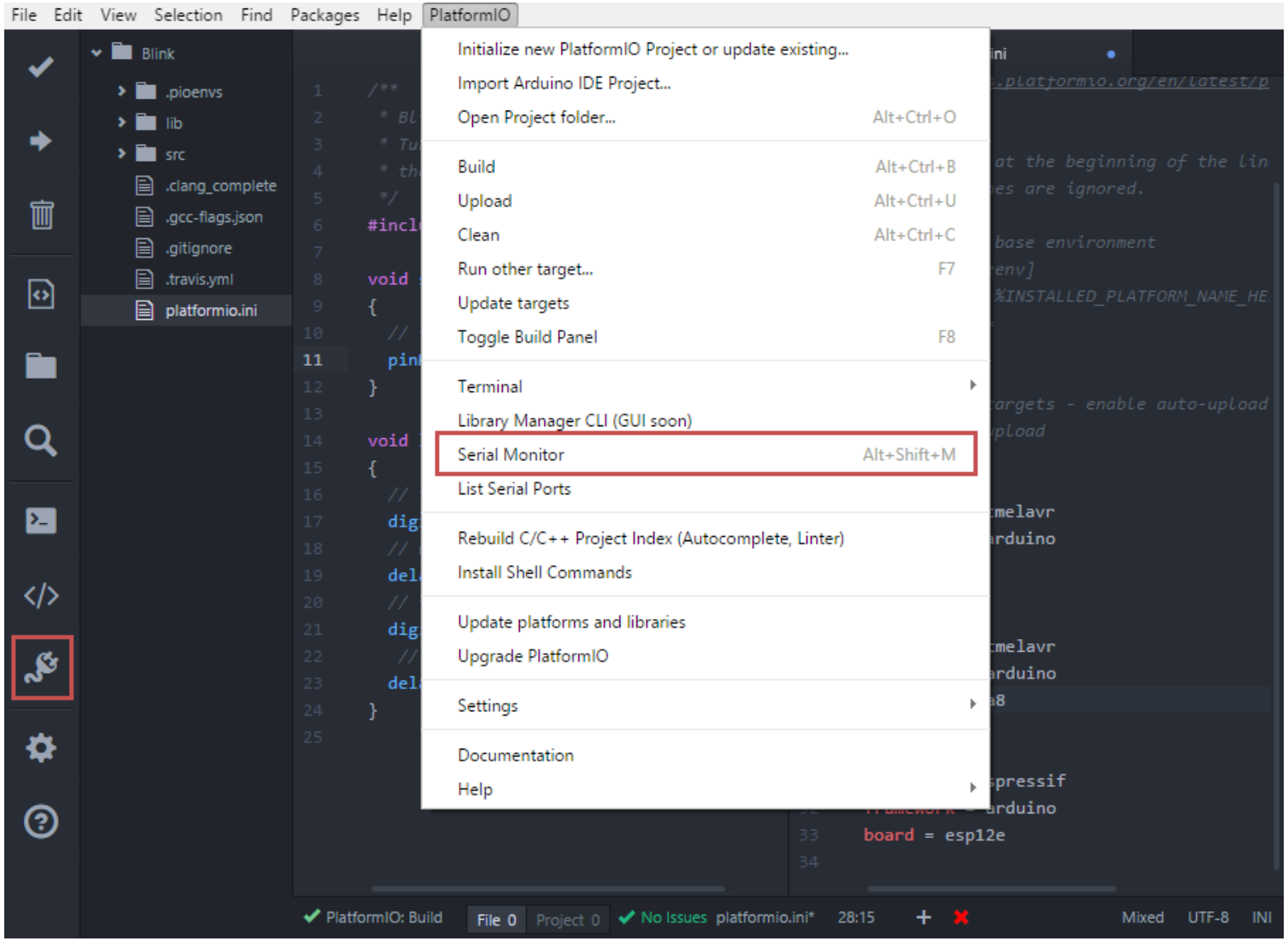


Platformio Quick Start

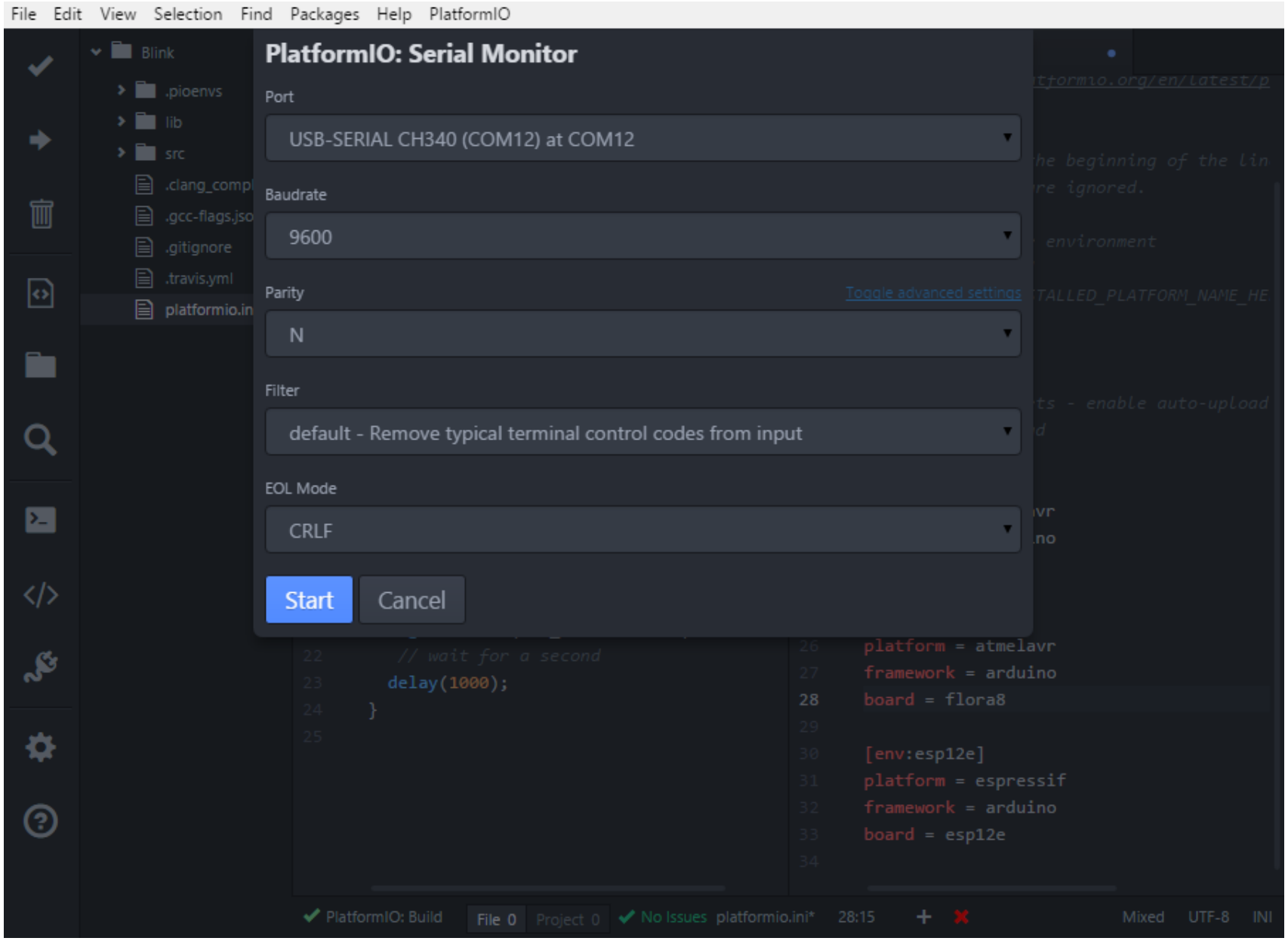


Platformio Quick Start

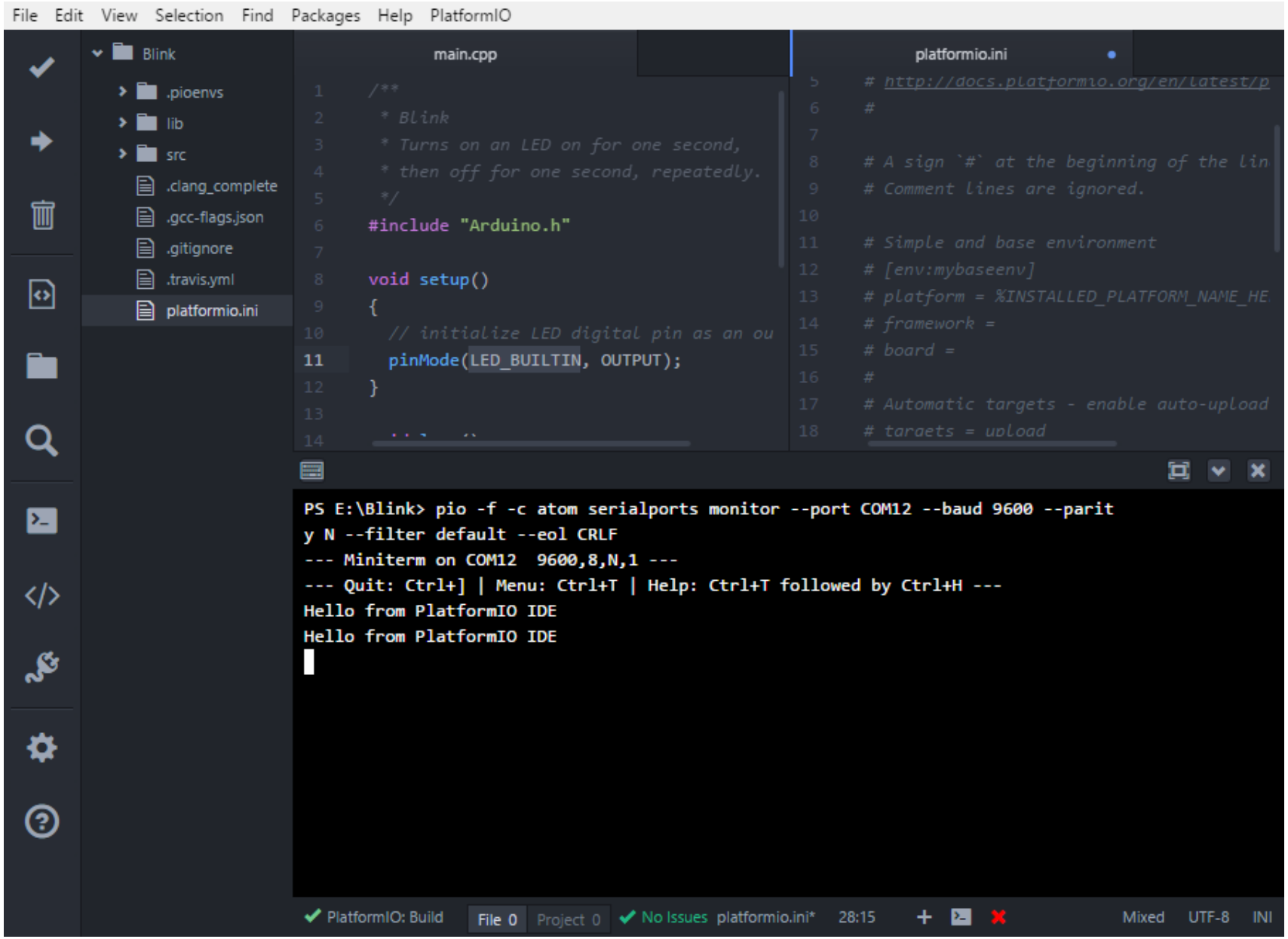
9. Debug program Anda menggunakan **Serial Port Monitor**



Platformio Quick Start



Platformio Quick Start



Platformio Core

1. Buka Atom Platformio
2. Buka **Terminal** menggunakan **CTRL+`**
3. Cek info *board* yang dipakai : `pio boards nodemcu` or `pio boards esp32doit`
4. Inisialiasi *project*-nya : `pio init --board uno --board nodemcuv1.0 --board esp32doit-devkit-v1`
5. Konfigurasi **platformio.ini** untuk kustomisasi opsi lebih lanjut

Platformio Core

platformio.ini

```
; PlatformIO Project Configuration File
;
;   Build options: build flags, source filter
;   Upload options: custom upload port, speed and extra flags
;   Library options: dependencies, extra library storages
;   Advanced options: extra scripting
;
; Please visit documentation for the other options and examples
; http://docs.platformio.org/page/projectconf.html
[platformio]
default_envs = iot_esp8266
core_dir = D:\PIO\.platformio

; if you want add aonther library folder
; lib_extra_dirs = K:\2009\WORK\PROJECT\PlatformIO_Library\
```

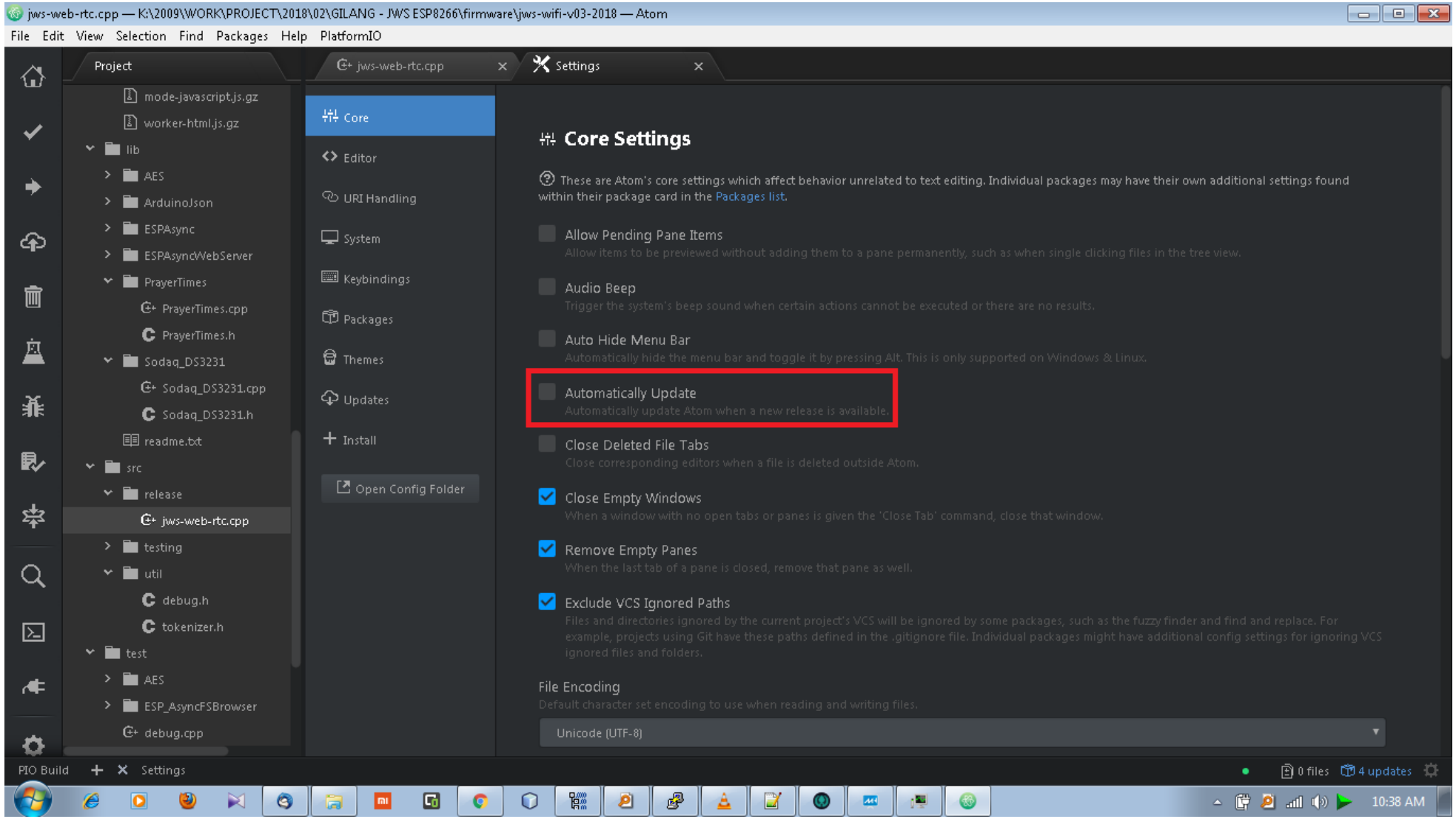
```
[env:iot_esp8266]
platform = espressif8266
board = nodemcuv2
framework = arduino
; 4M (1M SPIFFS)
build_flags = -Wl,-Tesp8266.flash.4m1m.ld

; 4M (3M SPIFFS)
; build_flags = -Wl,-Tesp8266.flash.4m.ld -lc

; make sure the library search it deep enough
lib_ldf_mode = deep+

; customize upload port
; upload_port = COM4
; upload_speed = 480600

; src_filter = -<test/>
; src_filter = +<*> -<arduino> -<test>
```

```
; you environment, name it as you wish, no space
[env:esp32dev]
; platform used
platform = espressif32
; platform = espressif32@0.11.1
; platform = https://github.com/platformio/
;            platform-espressif32.git

; framework use for this environment
; depend on your board and platform
framework = arduino

; Board name used
board = esp32doit-devkit-v1

; http://docs.platformio.org/en/latest/projectconf/
; section_env_library.html
; how the platformio search for Library
; deep+ is the most advance and
; complete for auto search Library
lib_ldf_mode = deep+
```

```
; which library you want to ignore or exclude from compilation
; lib_ignore = ESPAsync

; which library you want to use specifically for this environment
; lib_deps = DHT

; how the library is automagically choose,
; which one is going to be compiled,
; which one is not
; by default soft mode,
; platformio will ignore library which is
; not meant for the framework
; lib_compat_mode = soft

; if you got many folder inside src, then this will filter
; which one you want to include(+) or exclude(-)
; src_filter = +<*> -<release>

; add custom build flags
; -fexceptions needed if you want to use BLE
; build_flags = -fexceptions

; customize upload port, if needed
; upload_port = COM4
; upload_speed = 115200
```

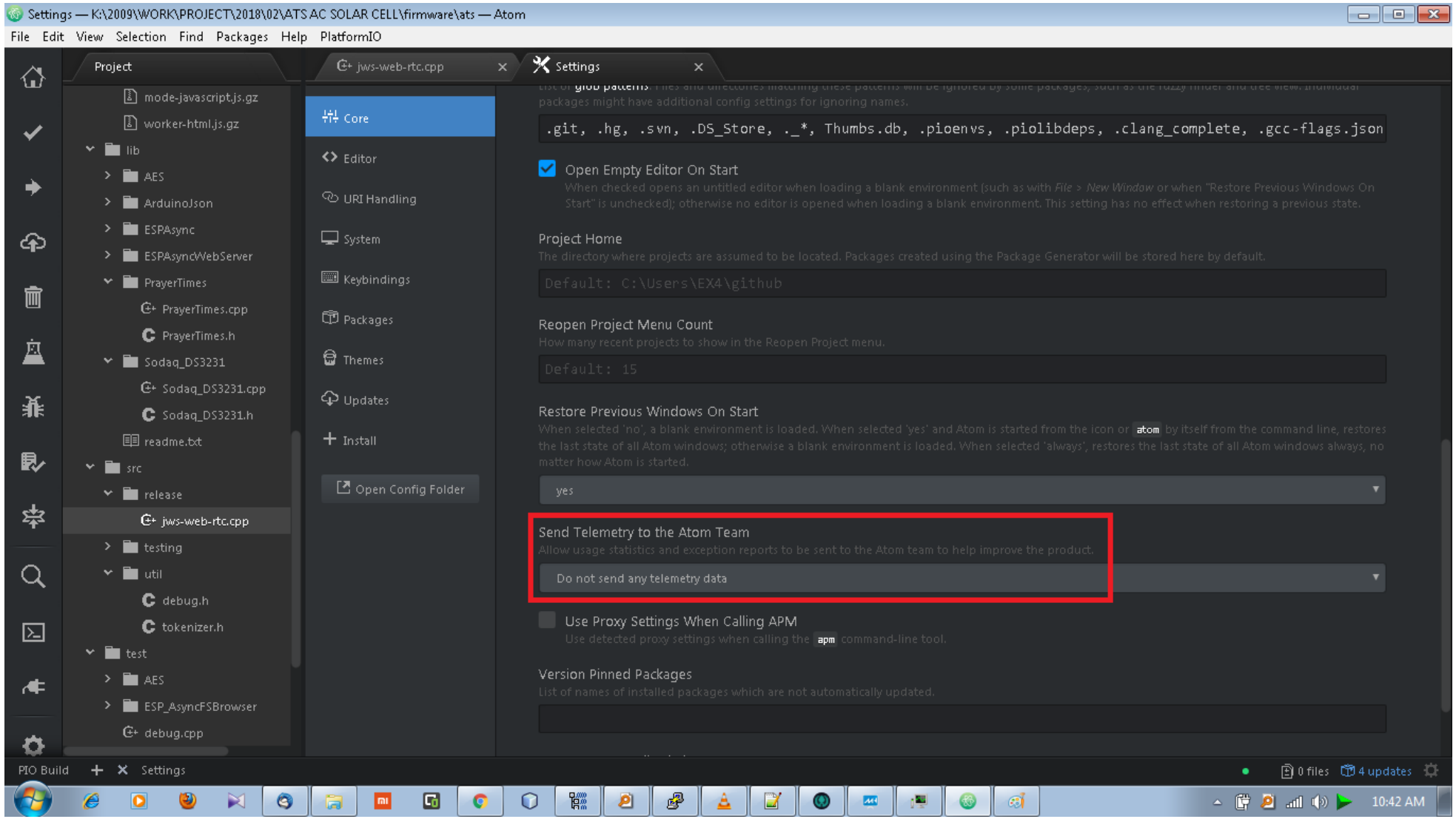
Platformio Tips

- Disable auto update -- **Sangat menyebalkan**



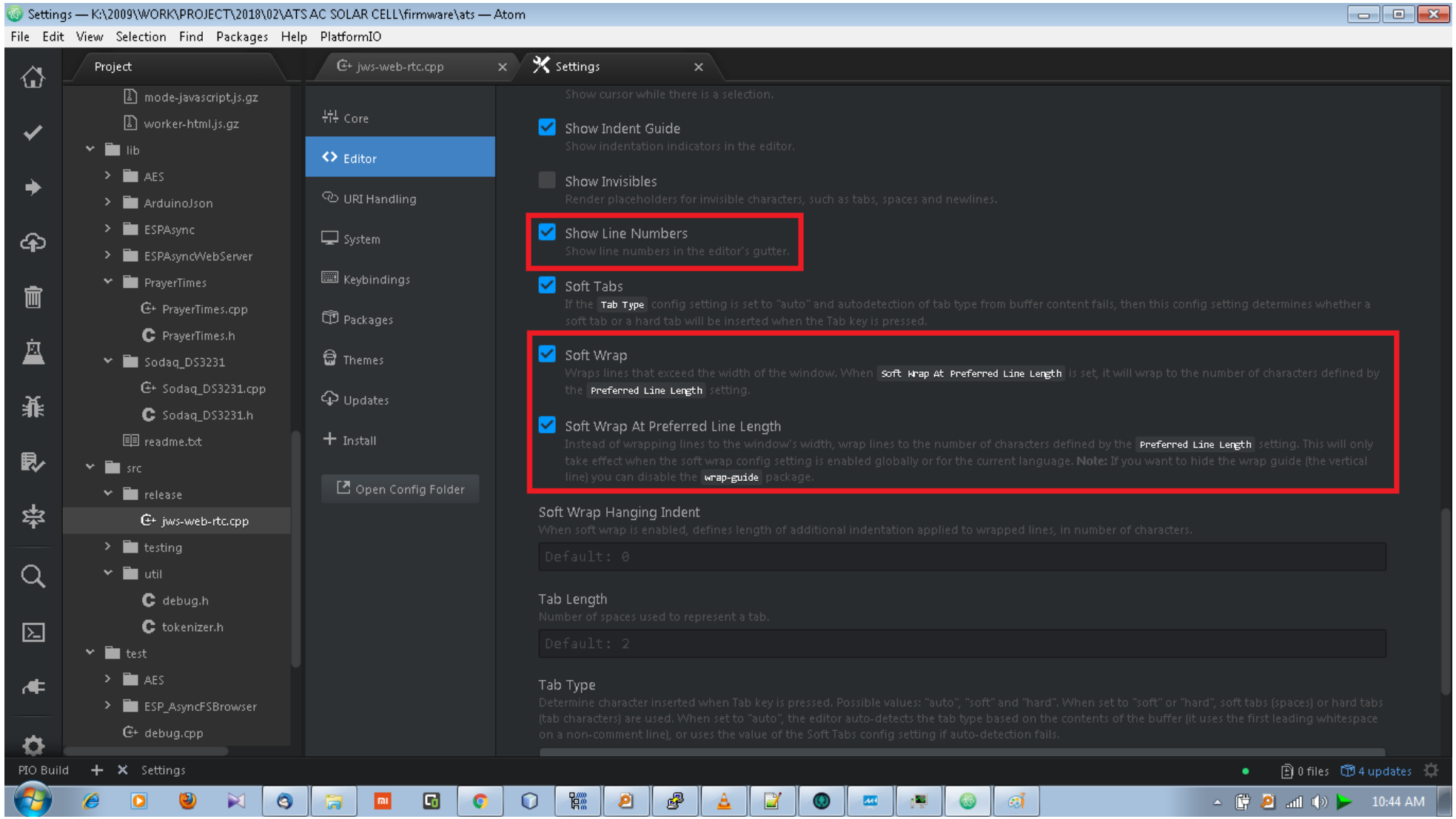
Platformio Tips

- Disable Telemetry -- **Makan *bandwitdh* jaringan**



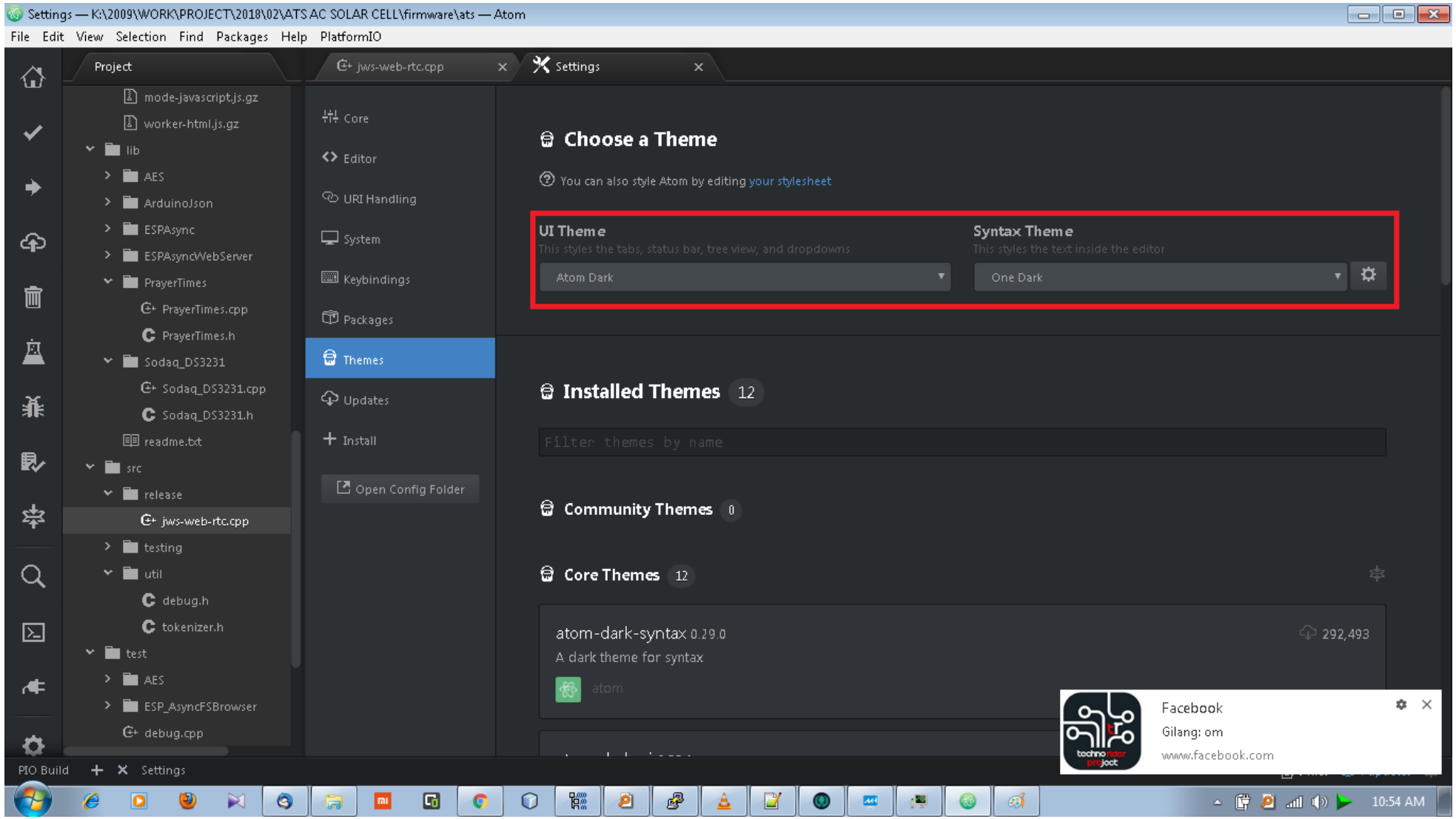
Platformio Tips

- Aktifkan nomor baris dan opsi wrap text -- **Informatif**



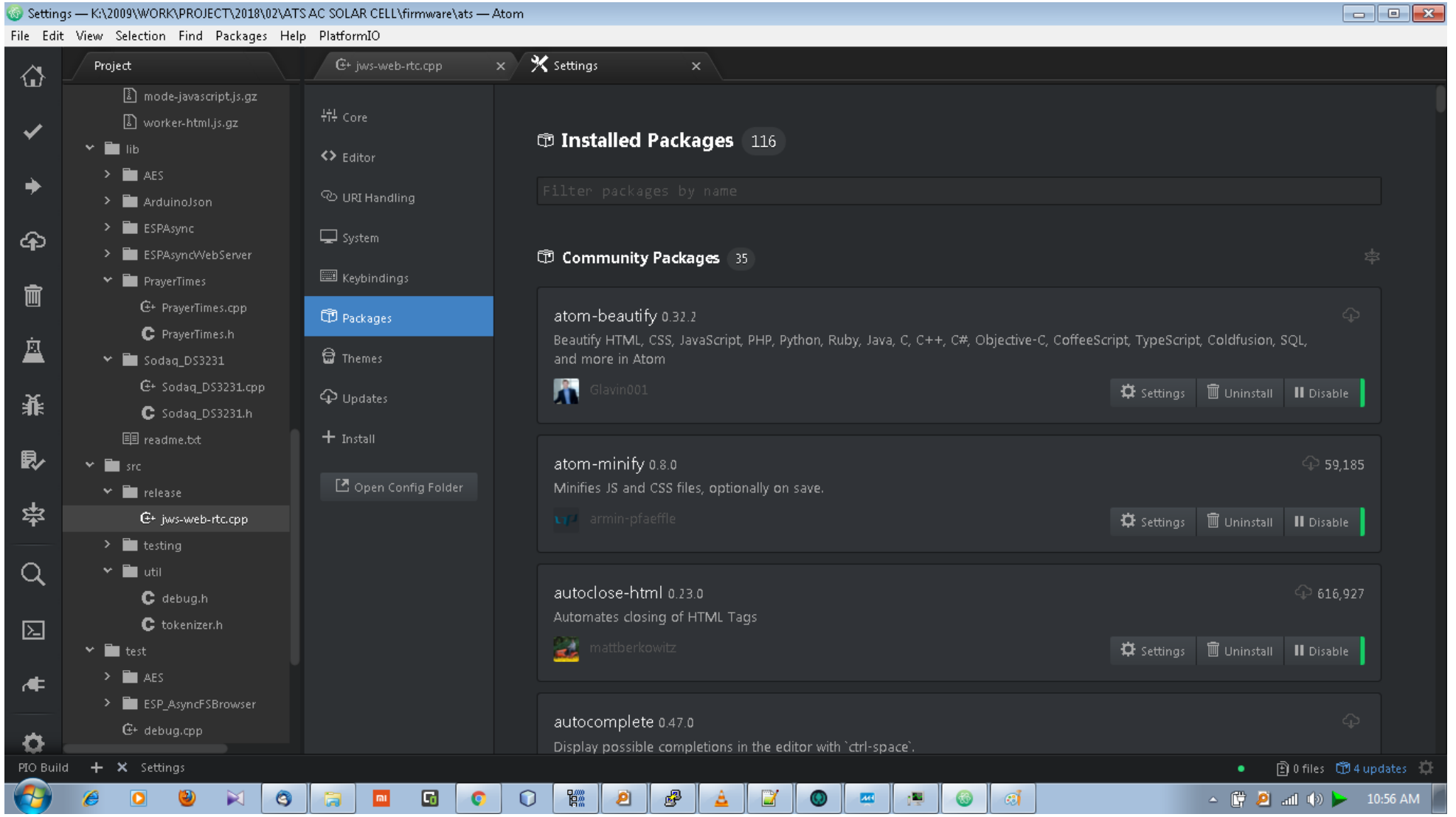
Platformio Tips

- Pilih theme yang adem di mata -- **Bikin ga lelah mata**



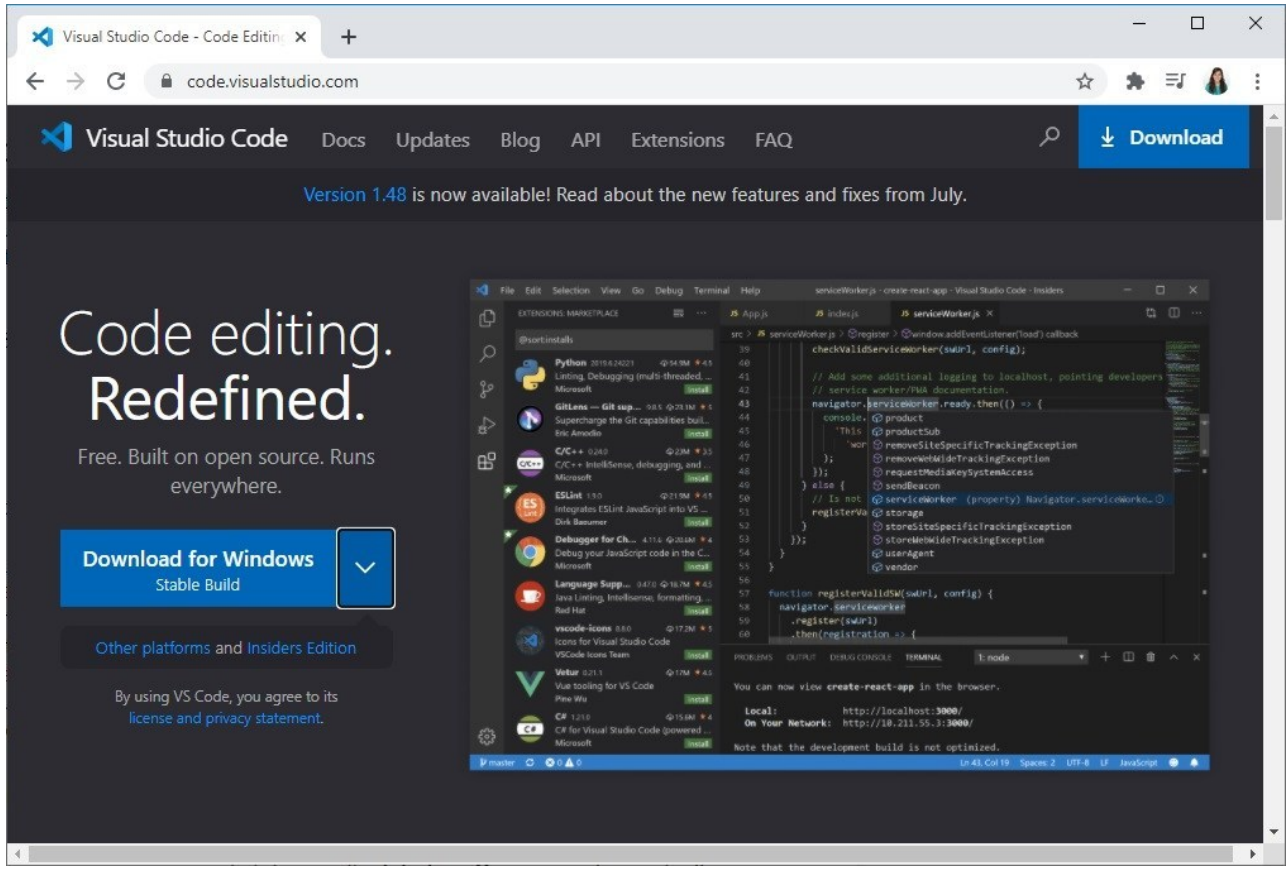
Platformio Tips

- Tambahkan beberapa modul Atom -- **Lebih produktif**
  - **atom-beautify, dockblockr, minimap**



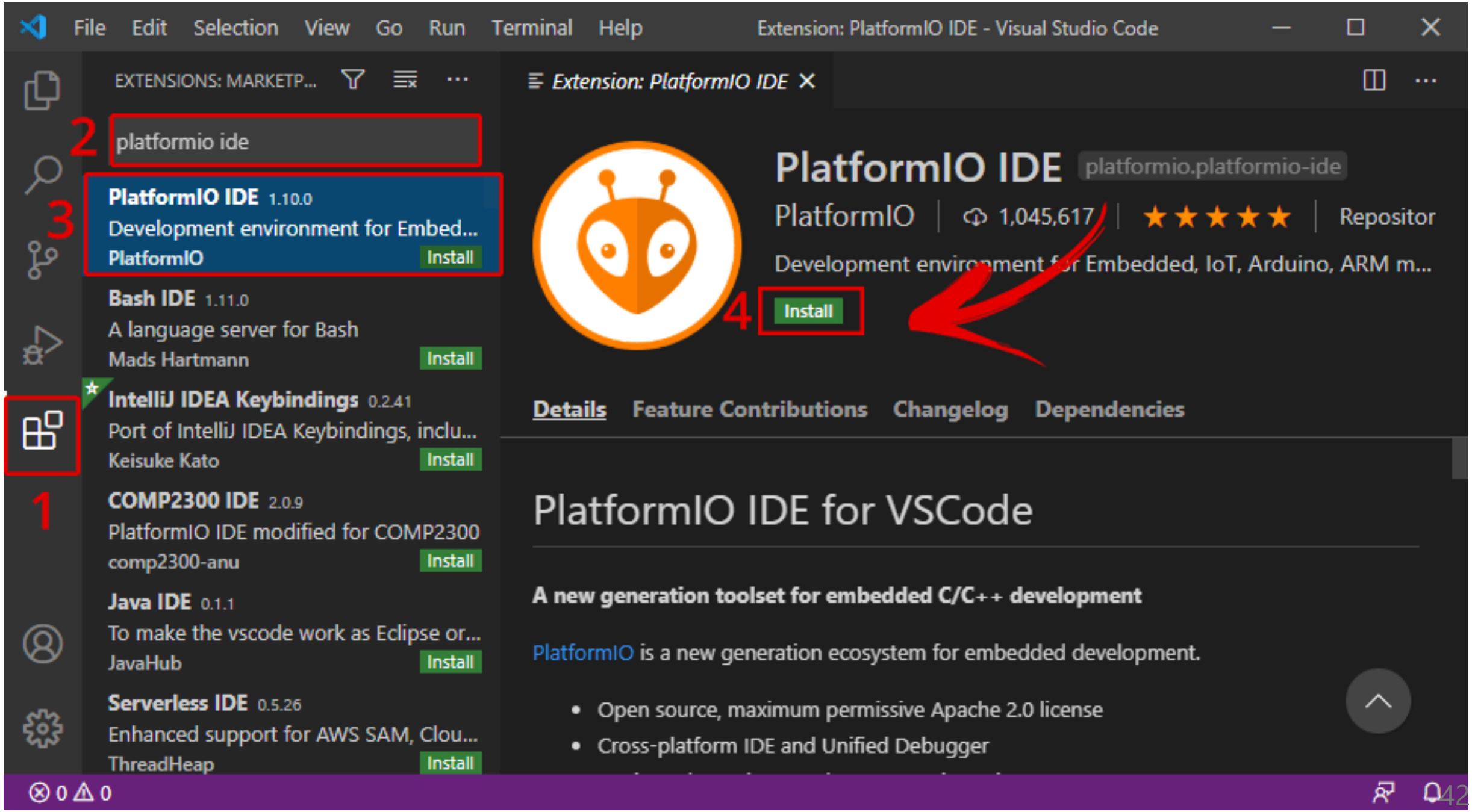
Visual Studio Code

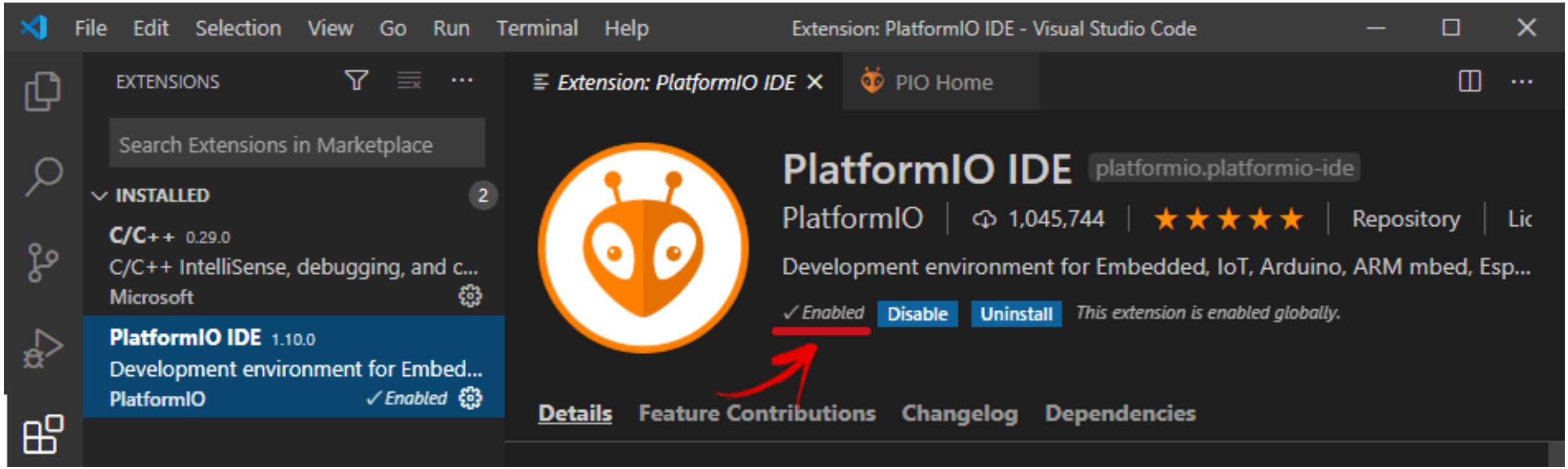
- Download versi portable dan ekstrak ke folder tanpa spasi : https://code.visualstudio.com/download https://code.visualstudio.com/sha/download?build=stable&os=win32-archive
- Pastikan Python 3.5 ke atas sudah terinstall

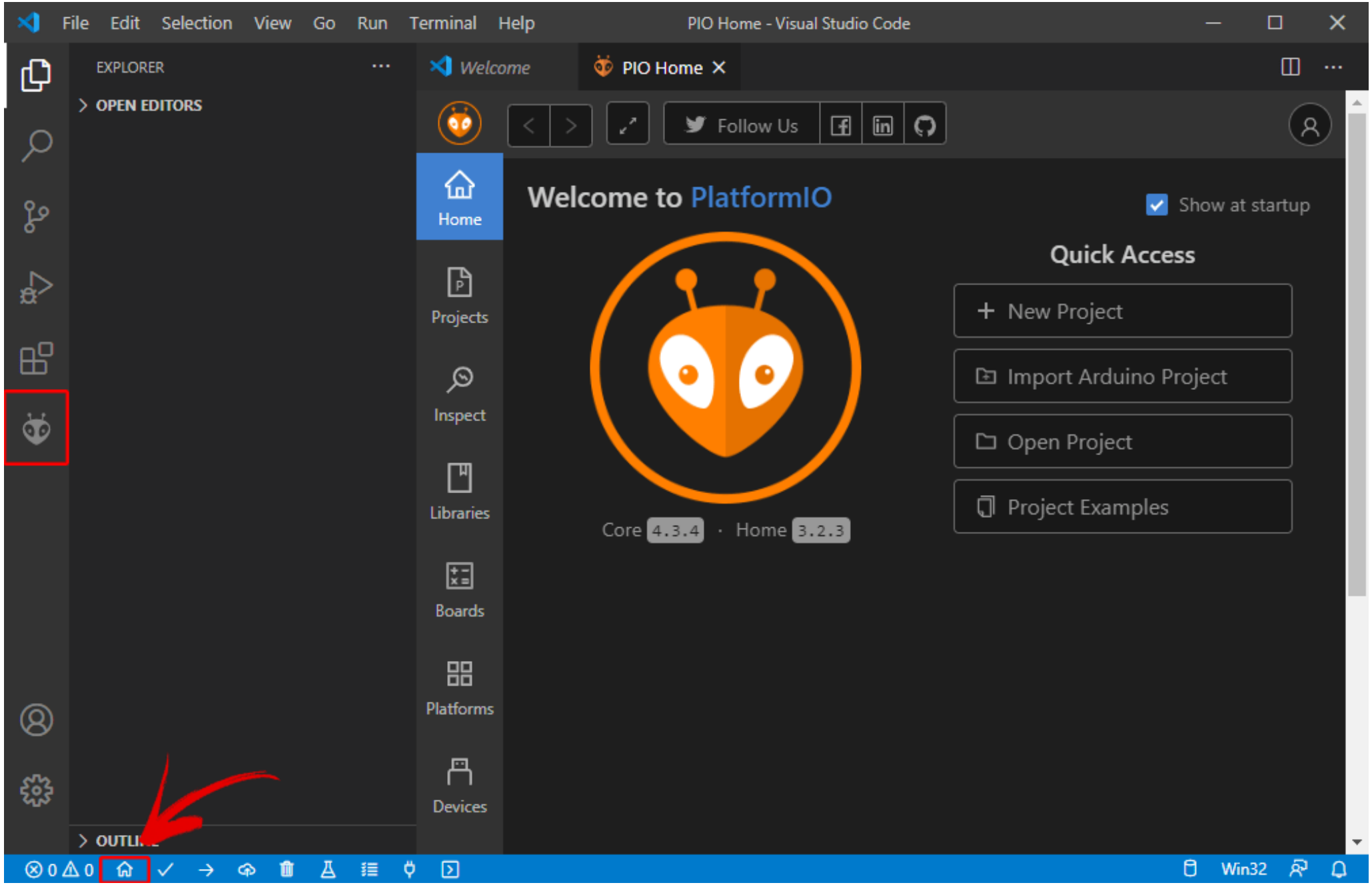


PlatformIO Extension

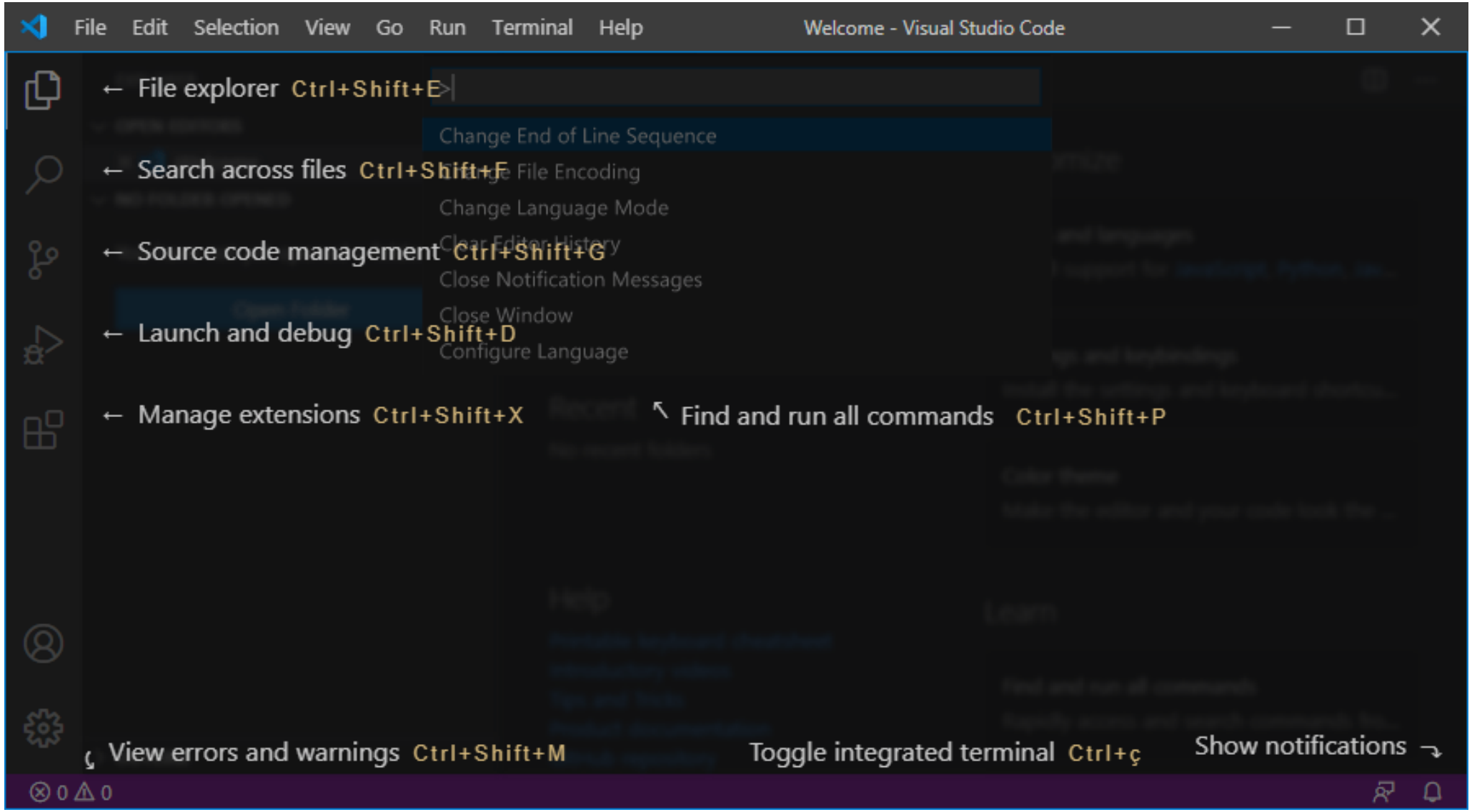
- Run VS Code As Adminitrator
- Klik Extensions icon atau tekan **Ctrl+Shift+X**
- Cari **PlatformIO IDE**
- Klik install dan silakan tunggu
- Setelah selesai, pastikan PlatformIO Extension sudah aktif


File Edit Selection View Go Run Terminal Help
Extension: PlatformIO IDE - Visual Studio Code
EXTENSIONS: MARKETP...
Extension: PlatformIO IDE
1
2
platformio ide
3
PlatformIO IDE 1.10.0
Development environment for Embed...
PlatformIO
Install
Bash IDE 1.11.0
A language server for Bash
Mads Hartmann
Install
IntelliJ IDEA Keybindings 0.2.41
Port of IntelliJ IDEA Keybindings, inclu...
Keisuke Kato
Install
COMP2300 IDE 2.0.9
PlatformIO IDE modified for COMP2300
comp2300-anu
Install
Java IDE 0.1.1
To make the vscode work as Eclipse or...
JavaHub
Install
Serverless IDE 0.5.26
Enhanced support for AWS SAM, Clou...
ThreadHeap
Install
PlatformIO IDE
platformio.platformio-ide
PlatformIO
1,045,617
Repositor
Development environment for Embedded, IoT, Arduino, ARM m...
4
Install
Details
Feature Contributions
Changelog
Dependencies
PlatformIO IDE for VSCode
A new generation toolset for embedded C/C++ development
PlatformIO is a new generation ecosystem for embedded development.
Open source, maximum permissive Apache 2.0 license
Cross-platform IDE and Unified Debugger
0 0
42

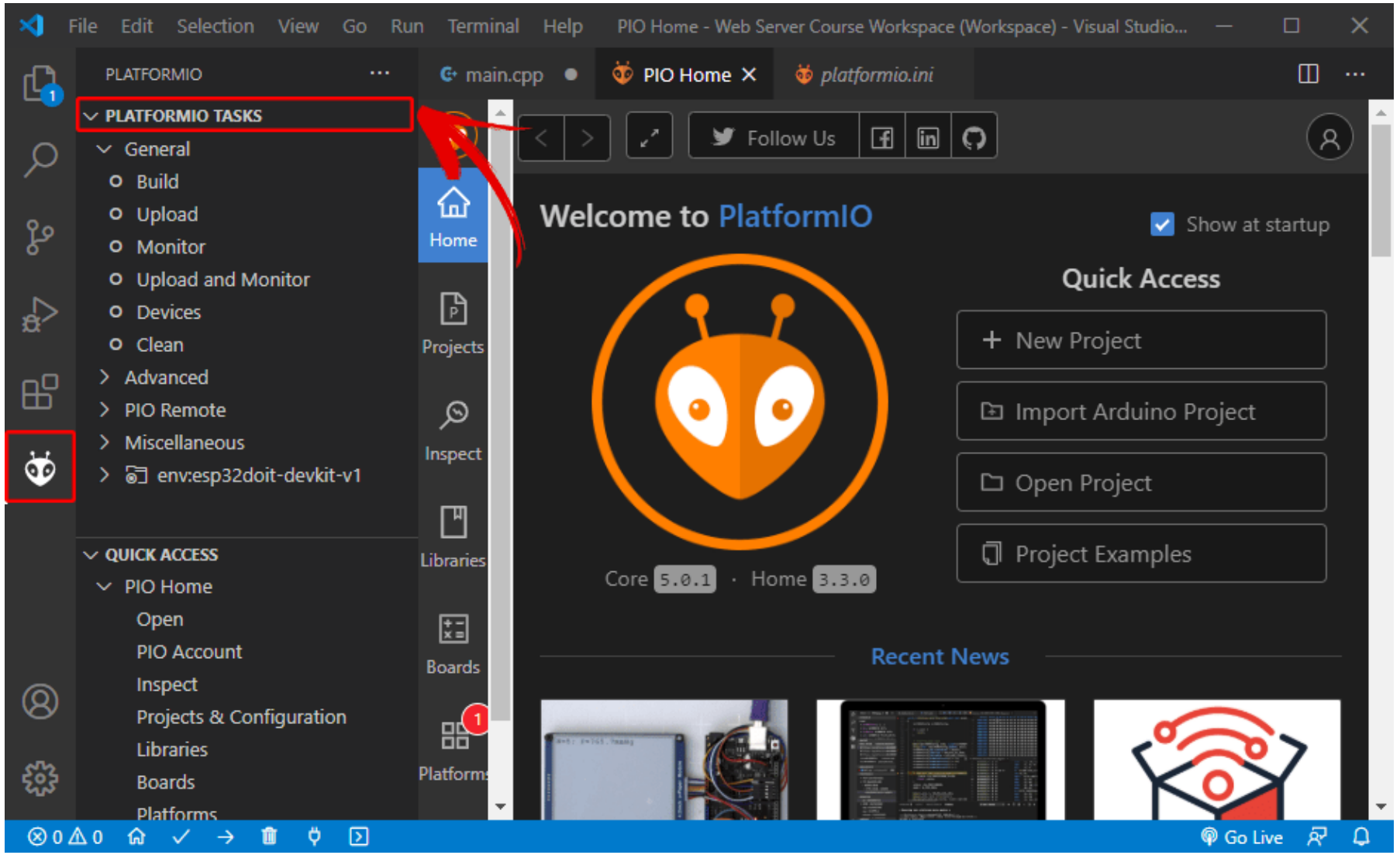

File Edit Selection View Go Run Terminal Help
Extension: PlatformIO IDE - Visual Studio Code
EXTENSIONS
Search Extensions in Marketplace
INSTALLED 2
C/C++ 0.29.0
C/C++ IntelliSense, debugging, and c...
Microsoft
PlatformIO IDE 1.10.0
Development environment for Embed...
PlatformIO ✓ Enabled
Extension: PlatformIO IDE
PIO Home
PlatformIO IDE platformio.platformio-ide
PlatformIO 1,045,744 Repository Lic
Development environment for Embedded, IoT, Arduino, ARM mbed, Esp...
✓ Enabled Disable Uninstall This extension is enabled globally.
Details Feature Contributions Changelog Dependencies


File Edit Selection View Go Run Terminal Help
PIO Home - Visual Studio Code
EXPLORER
OPEN EDITORS
Welcome
PIO Home
Follow Us
Home
Projects
Inspect
Libraries
Boards
Platforms
Devices
Welcome to PlatformIO
Show at startup
Quick Access
New Project
Import Arduino Project
Open Project
Project Examples
Core 4.3.4 · Home 3.2.3
Win32

Interface


File Edit Selection View Go Run Terminal Help
Welcome - Visual Studio Code
← File explorer Ctrl+Shift+E
← Search across files Ctrl+Shift+F
← Source code management Ctrl+Shift+G
← Launch and debug Ctrl+Shift+D
← Manage extensions Ctrl+Shift+X
↖ Find and run all commands Ctrl+Shift+P
Change End of Line Sequence
Change File Encoding
Change Language Mode
Close Notification Messages
Close Window
Configure Language
View errors and warnings Ctrl+Shift+M
Toggle integrated terminal Ctrl+ç
Show notifications
⊗ 0 ⚠ 0

PIO Task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PIO Home - Web Server Course Workspace (Workspace) - Visual Studio...
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Monitor
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Show at startup
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Import Arduino Project
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Core 5.0.1 · Home 3.3.0
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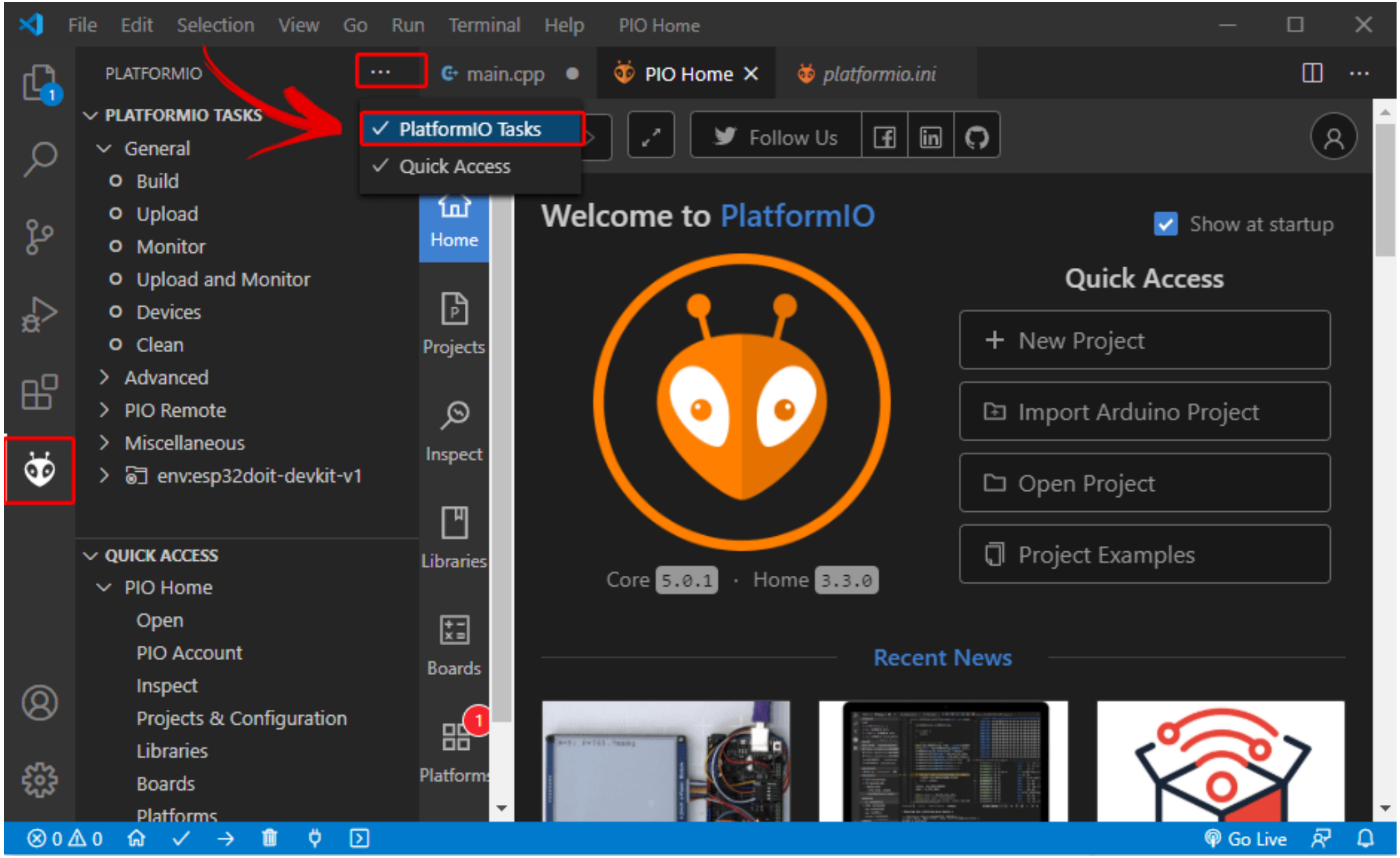
Go Live


File Edit Selection View Go Run Terminal Help PIO Home
PLATFORMIO
main.cpp
PIO Home
platformio.ini
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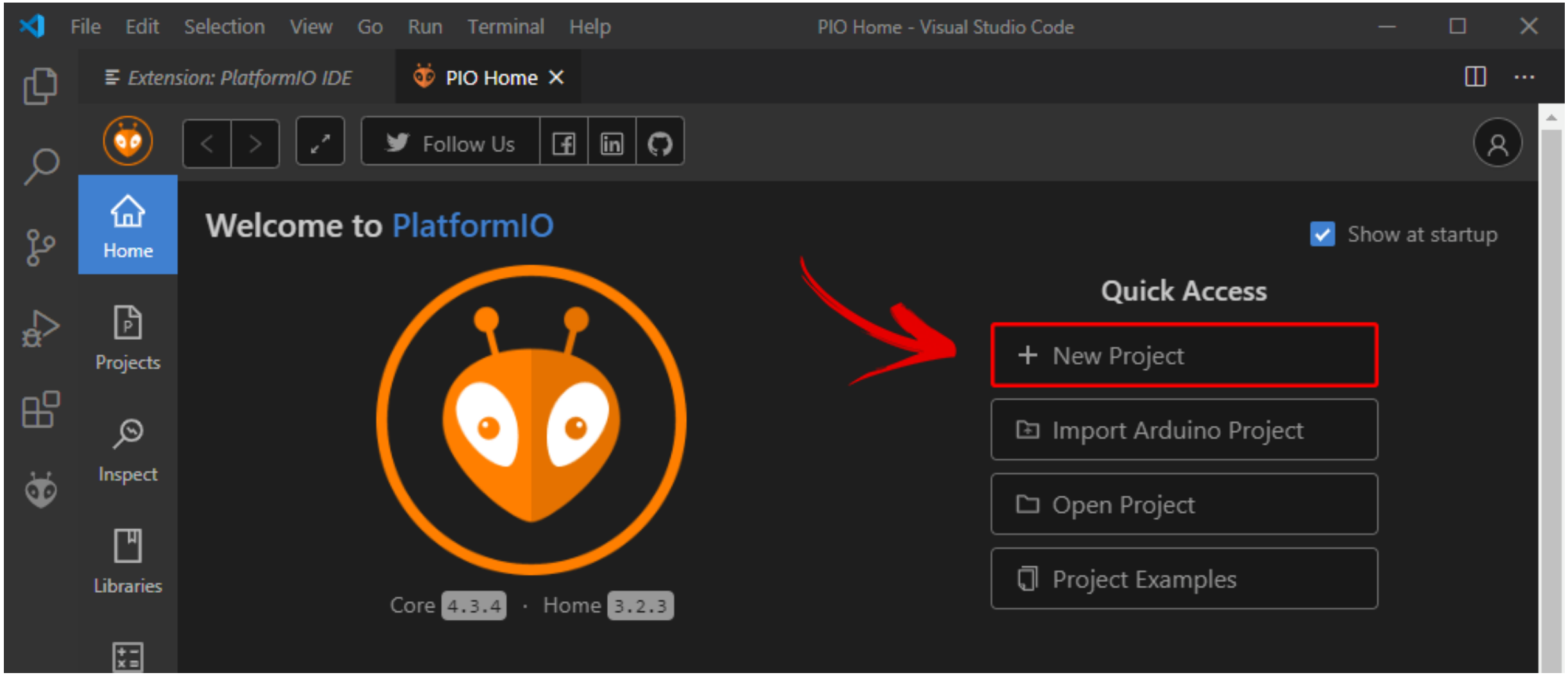
Project

1. Klik +New Project dari PIO Home
2. Pilih board Anda, misal Wemos D1 Mini
3. Jangan centang **Use default location**. Pilih Folder Anda sendiri
4. Klik **Finish*


File Edit Selection View Go Run Terminal Help
PIO Home - Visual Studio Code
Extension: PlatformIO IDE
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Welcome to PlatformIO
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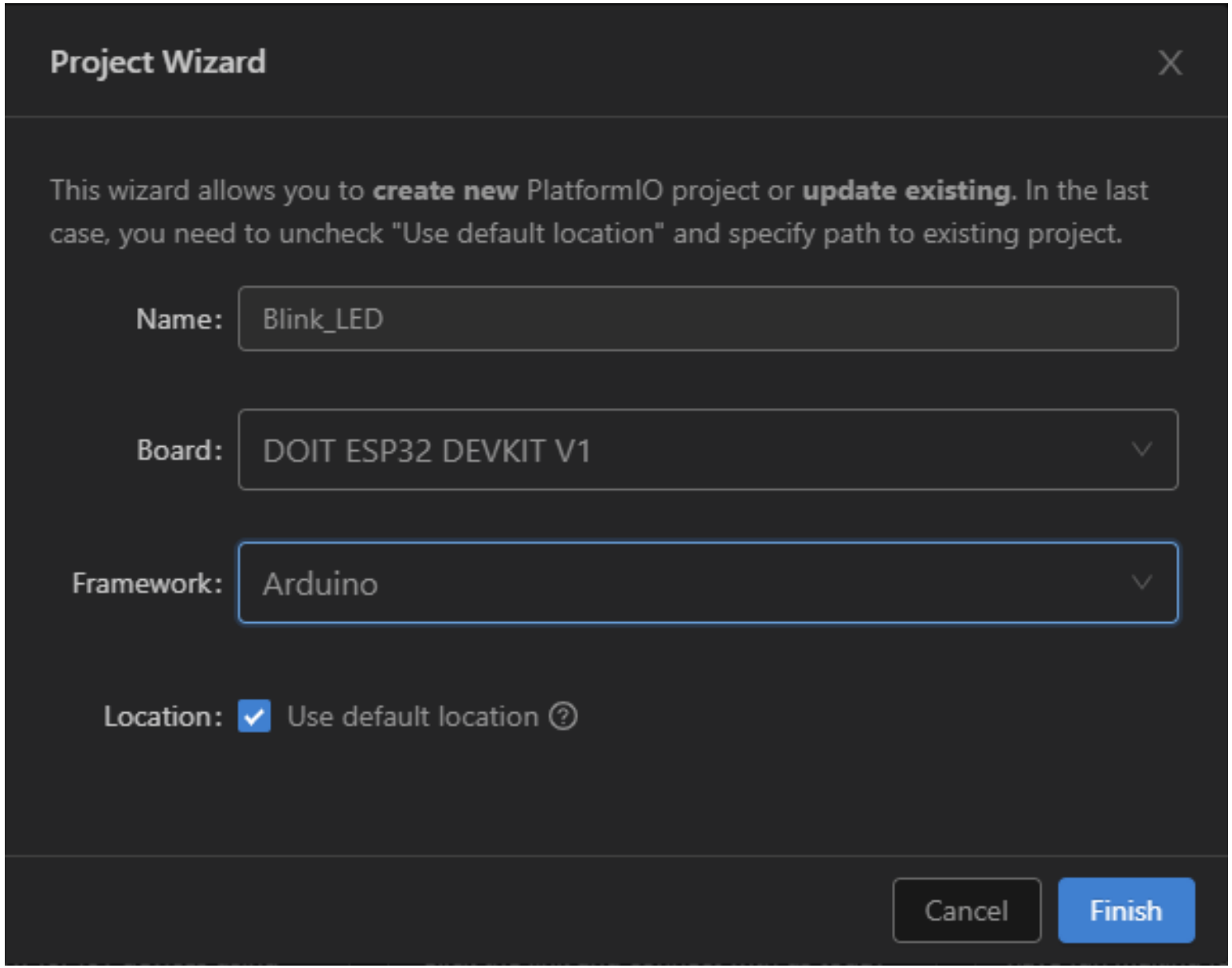
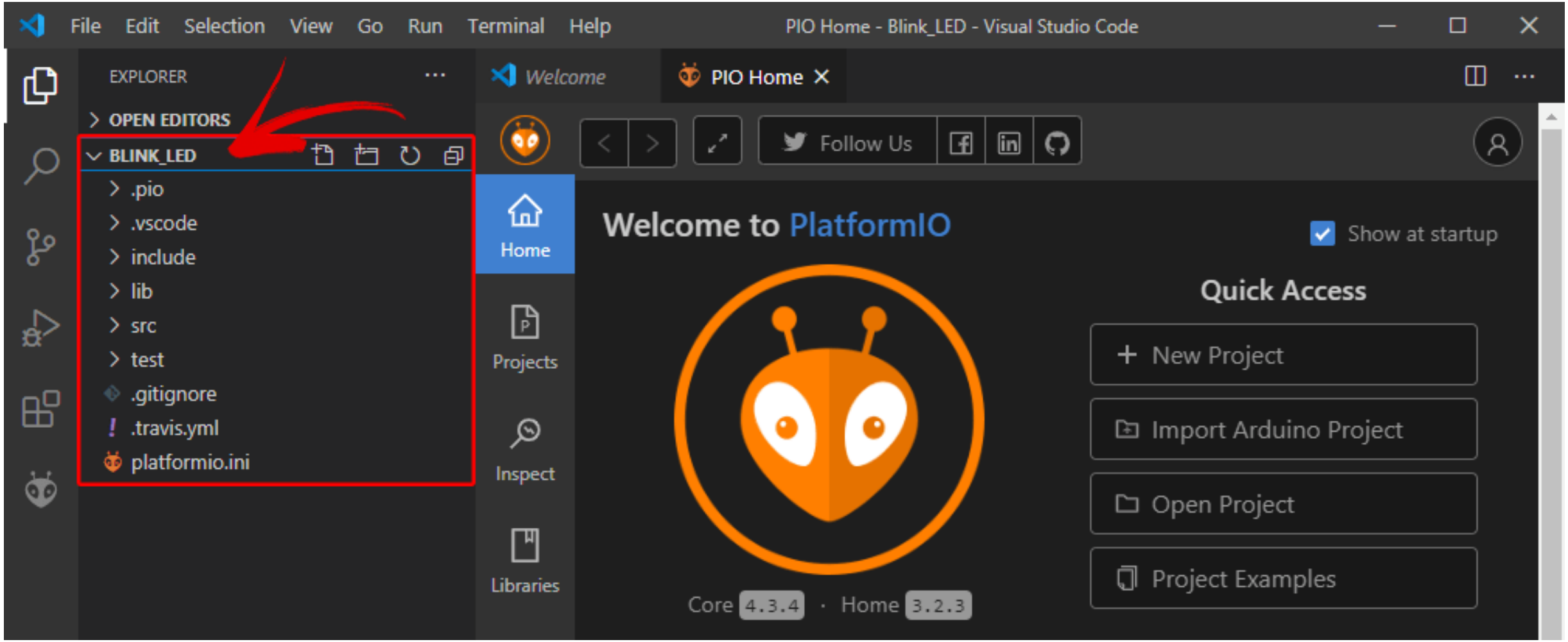

Project Wizard
This wizard allows you to **create new** PlatformIO project or **update existing**. In the last case, you need to uncheck "Use default location" and specify path to existing project.
Name:
Blink_LED
Board:
DOIT ESP32 DEVKIT V1
Framework:
Arduino
Location:
Use default location
Cancel
Finish


File Edit Selection View Go Run Terminal Help
PIO Home - Blink_LED - Visual Studio Code
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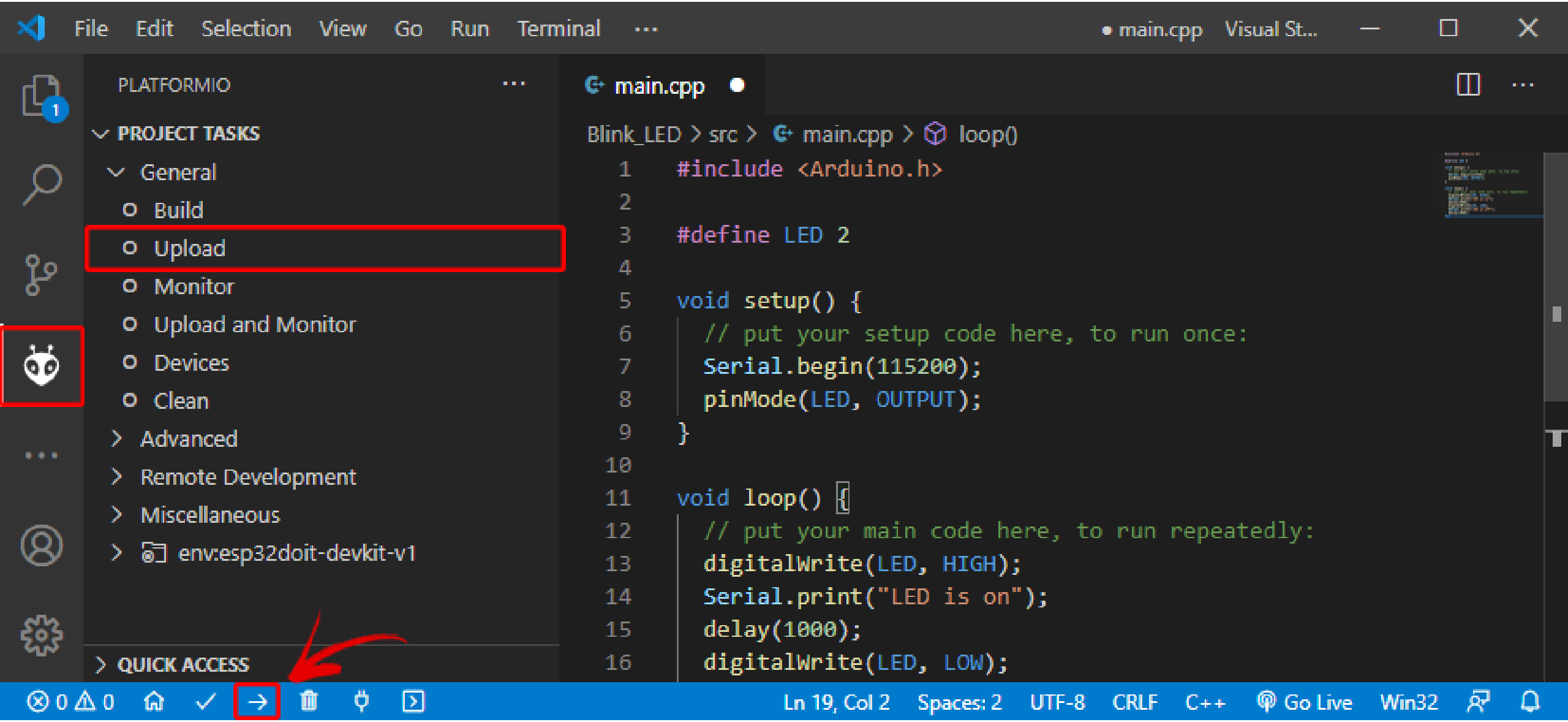
Kompilasi Program

Klik kanan folder **src** dan buat file baru misal **main.cpp**. Isikan dengan kode berikut ini :

```
#include <Arduino.h>

#define LED LED_BUILTIN

void setup() {
  Serial.begin(115200);
  pinMode(LED, OUTPUT);
}

void loop() {
  digitalWrite(LED, HIGH);
  Serial.println("LED is on");
  delay(1000);
  digitalWrite(LED, LOW);
  Serial.println("LED is off");
  delay(1000);
}
```

Build dan Upload

1. Klik pilihan **Build** untuk melakukan kompilasi program Anda
2. Klik **Upload** untuk memprogram board Anda. Pastikan board Anda sudah dikenali di Device Manager


File Edit Selection View Go Run Terminal ...
• main.cpp Visual St...
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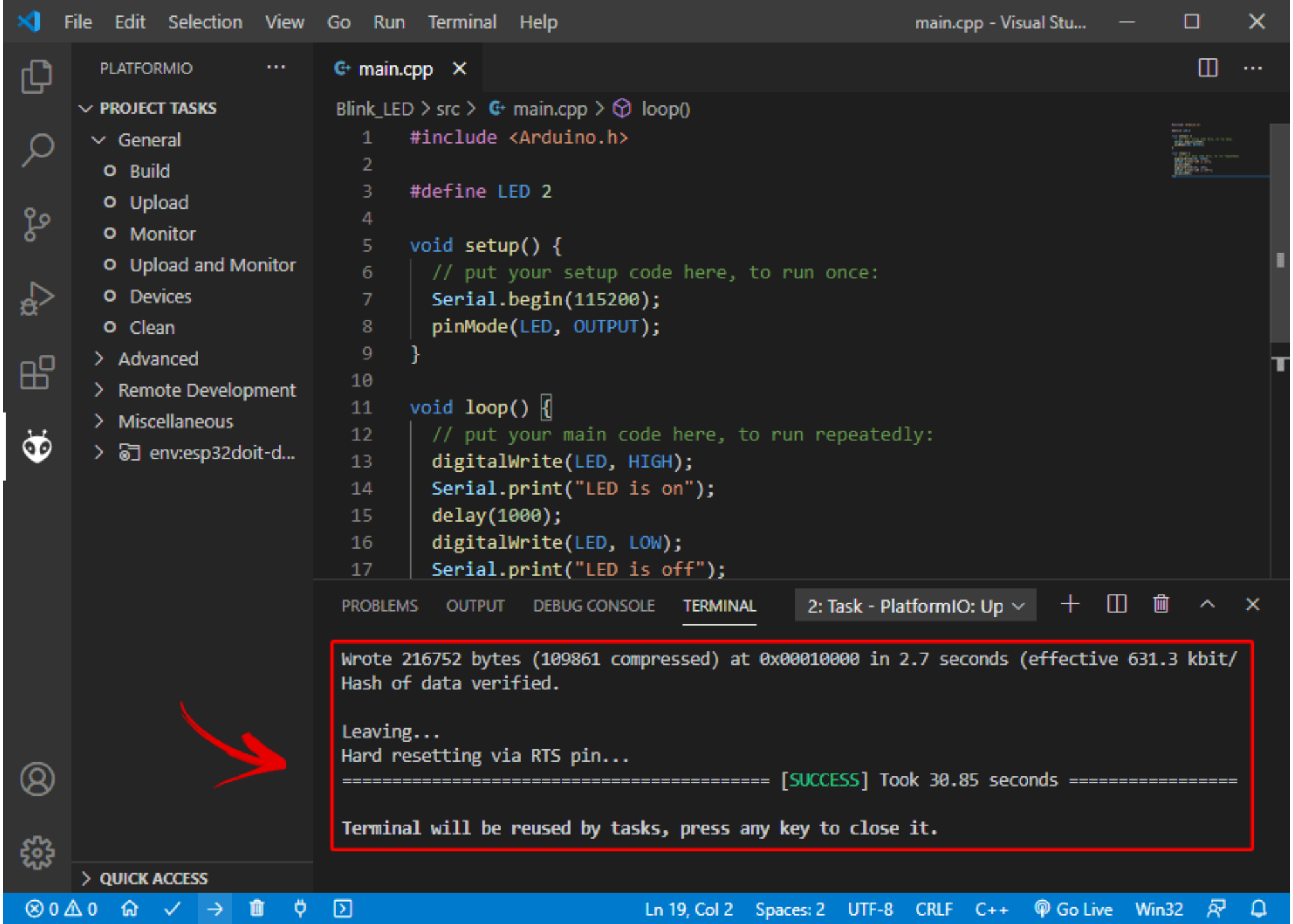
Miscellaneous
env:esp32doit-devkit-v1
QUICK ACCESS
main.cpp
Blink_LED > src > main.cpp > loop()
1 #include <Arduino.h>
2
3 #define LED 2
4
5 void setup() {
6 // put your setup code here, to run once:
7 Serial.begin(115200);
8 pinMode(LED, OUTPUT);
9 }
10
11 void loop() {
12 // put your main code here, to run repeatedly:
13 digitalWrite(LED, HIGH);
14 Serial.print("LED is on");
15 delay(1000);
16 digitalWrite(LED, LOW);
0 0
Ln 19, Col 2 Spaces: 2 UTF-8 CRLF C++ Go Live Win32


File Edit Selection View Go Run Terminal Help
main.cpp - Visual Stu...
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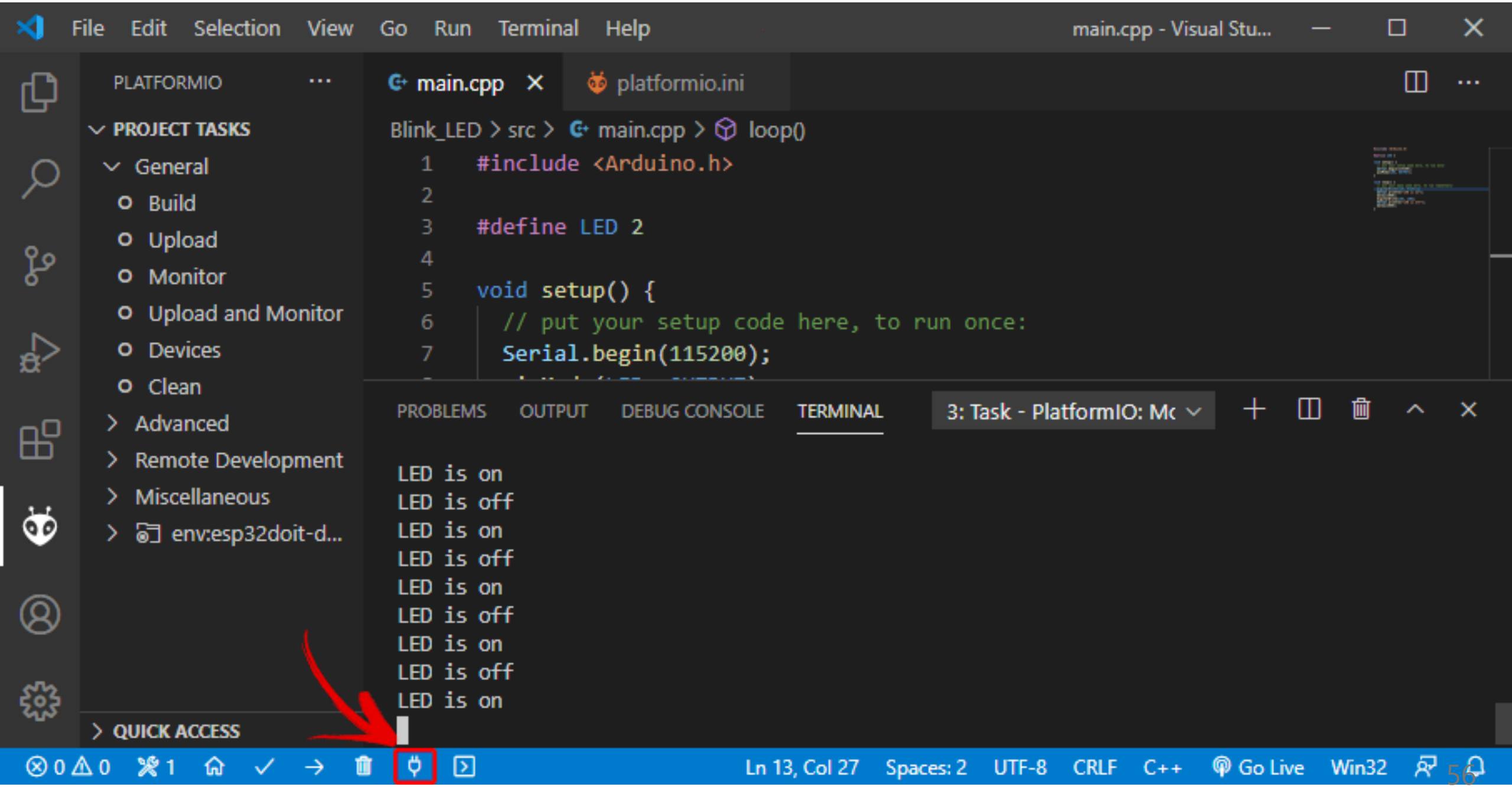
env:esp32doit-d...
QUICK ACCESS
main.cpp
Blink_LED > src > main.cpp > loop()
#include <Arduino.h>
#define LED 2
void setup() {
// put your setup code here, to run once:
Serial.begin(115200);
pinMode(LED, OUTPUT);
}
void loop() {
// put your main code here, to run repeatedly:
digitalWrite(LED, HIGH);
Serial.print("LED is on");
delay(1000);
digitalWrite(LED, LOW);
Serial.print("LED is off");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
2: Task - PlatformIO: Up
Wrote 216752 bytes (109861 compressed) at 0x00010000 in 2.7 seconds (effective 631.3 kbit/
Hash of data verified.
Leaving...
Hard resetting via RTS pin...
========== [SUCCESS] Took 30.85 seconds ==========
Terminal will be reused by tasks, press any key to close it.
Ln 19, Col 2 Spaces: 2 UTF-8 CRLF C++ Go Live Win32


File Edit Selection View Go Run Terminal Help
main.cpp - Visual Stu...
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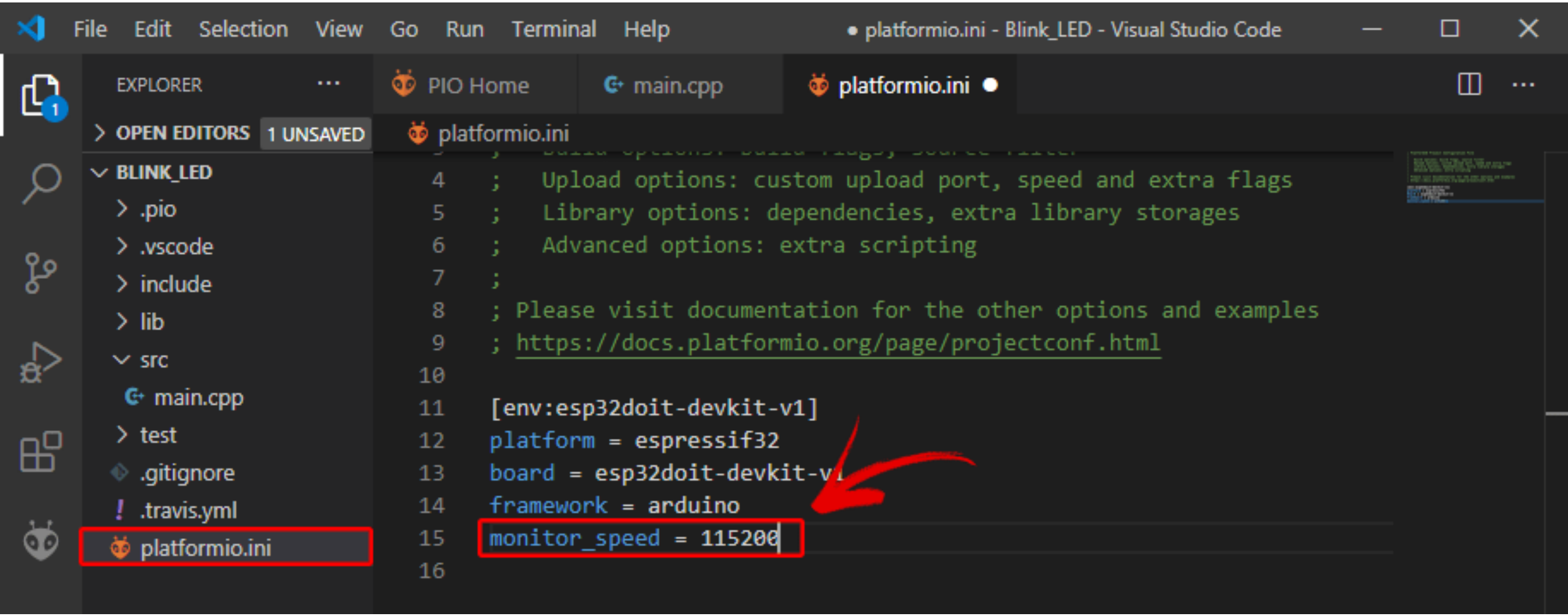
Miscellaneous
env:esp32doit-d...
QUICK ACCESS
main.cpp
platformio.ini
Blink_LED > src > main.cpp > loop()
1 #include <Arduino.h>
2
3 #define LED 2
4
5 void setup() {
6 // put your setup code here, to run once:
7 Serial.begin(115200);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
3: Task - PlatformIO: Mc
LED is on
LED is off
LED is on
LED is off
LED is on
LED is off
LED is on
LED is off
LED is on
Ln 13, Col 27 Spaces: 2 UTF-8 CRLF C++ Go Live Win32


File Edit Selection View Go Run Terminal Help
• platformio.ini - Blink_LED - Visual Studio Code
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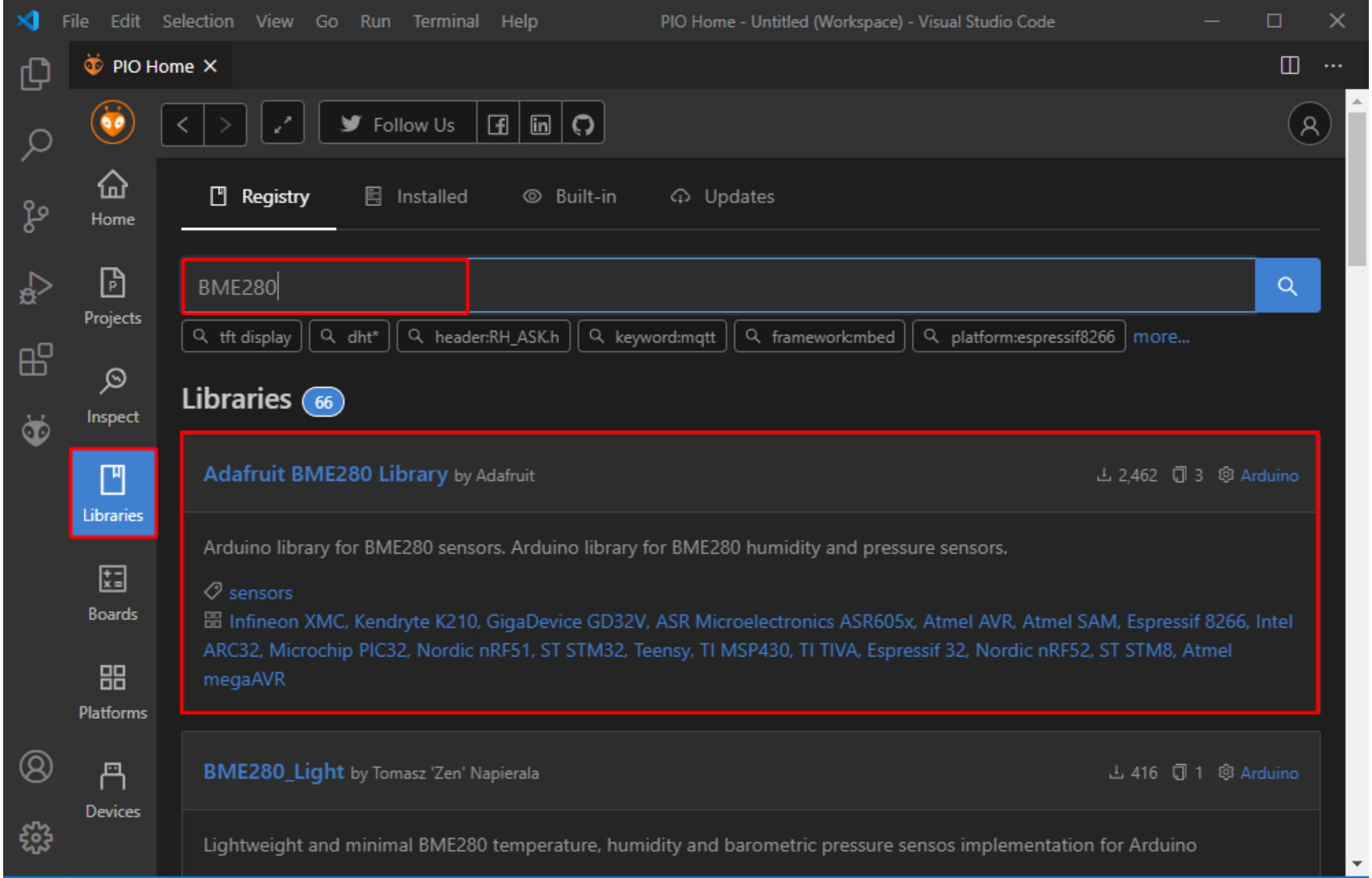
platformio.ini
BLINK_LED
.pio
.vscode
include
lib
src
main.cpp
test
.gitignore
.travis.yml
platformio.ini
; Upload options: custom upload port, speed and extra flags
; Library options: dependencies, extra library storages
; Advanced options: extra scripting
;
; Please visit documentation for the other options and examples
; https://docs.platformio.org/page/projectconf.html
[env:esp32doit-devkit-v1]
platform = espressif32
board = esp32doit-devkit-v1
framework = arduino
monitor_speed = 115200

Instalasi Library

- Bisa secara manual (saya sarankan manual saja)
- Menggunakan library manager PIO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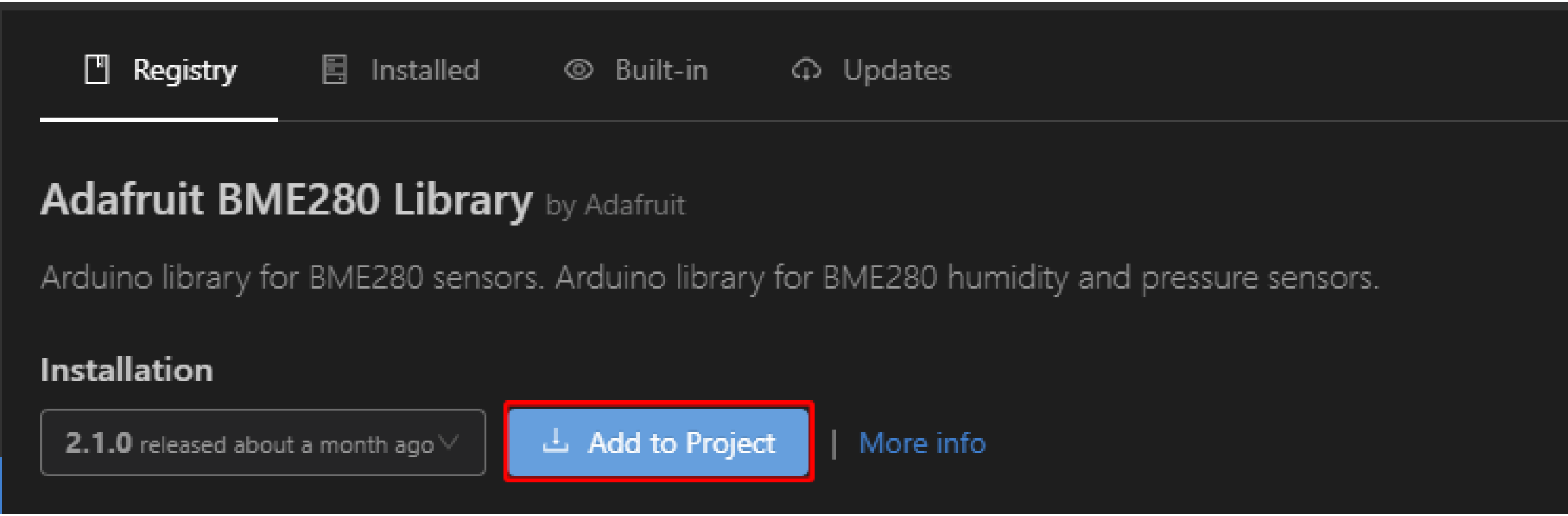
dht*
header:RH_ASK.h
keyword:mqtt
framework:mbed
platform:espressif8266
more...
Libraries 66
Adafruit BME280 Library by Adafruit
2,462 3 Arduino
Arduino library for BME280 sensors. Arduino library for BME280 humidity and pressure sensors.
sensors
Infineon XMC, Kendryte K210, GigaDevice GD32V, ASR Microelectronics ASR605x, Atmel AVR, Atmel SAM, Espressif 8266, Intel ARC32, Microchip PIC32, Nordic nRF51, ST STM32, Teensy, TI MSP430, TI TIVA, Espressif 32, Nordic nRF52, ST STM8, Atmel megaAVR
BME280_Light by Tomasz 'Zen' Napierala
416 1 Arduino
Lightweight and minimal BME280 temperature, humidity and barometric pressure sensos implementation for Arduino
0 0
Go Live


Registry
Installed
Built-in
Updates
Adafruit BME280 Library by Adafruit
Arduino library for BME280 sensors. Arduino library for BME280 humidity and pressure sensors.
Installation
2.1.0 released about a month ago
Add to Project
More info

Add project dependency

adafruit/Adafruit BME280 Library@^2.1.0

Projects\Blink_LED

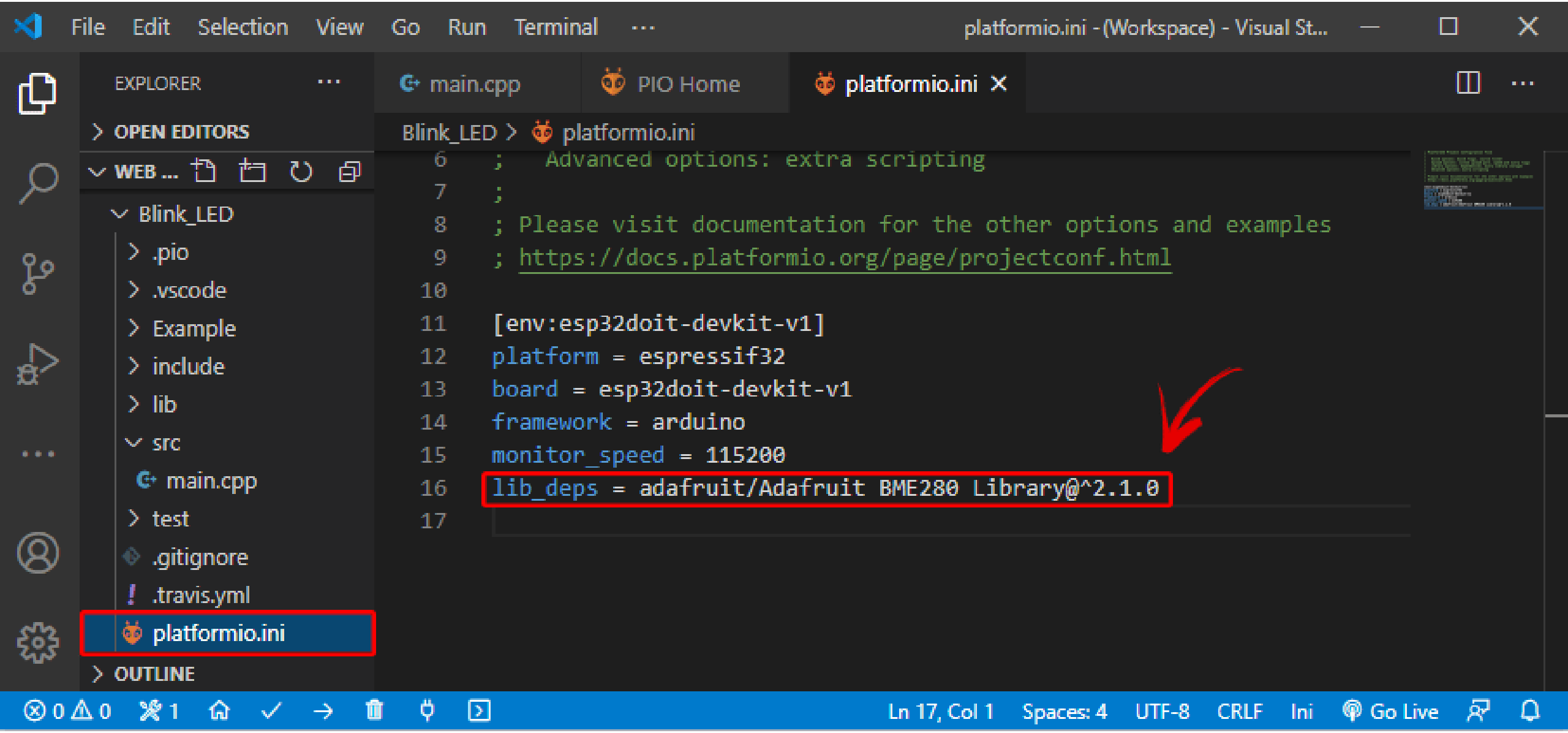
You can manage your projects in the "Projects" section: create a new or add existing.

Information

> Registry and Specification

> External resources

Cancel Add


File Edit Selection View Go Run Terminal ...
platformio.ini - (Workspace) - Visual St...
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Blink_LED
.pio
.vscode
Example
include
lib
src
main.cpp
test
.gitignore
.travis.yml
platformio.ini
OUTLINE
main.cpp
PIO Home
platformio.ini
Blink_LED > platformio.ini
6 ; Advanced options: extra scripting
7 ;
8 ; Please visit documentation for the other options and examples
9 ; https://docs.platformio.org/page/projectconf.html
10
11 [env:esp32doit-devkit-v1]
12 platform = espressif32
13 board = esp32doit-devkit-v1
14 framework = arduino
15 monitor_speed = 115200
16 lib_deps = adafruit/Adafruit BME280 Library@^2.1.0
17
Ln 17, Col 1 Spaces: 4 UTF-8 CRLF Ini Go Live

Adafruit BME280 Library by Adafruit

Arduino library for BME280 sensors. Arduino library for BME280 humidity and pressure sensors.

Installation

2.1.0 released about a month ago | Add to Project | More info

Examples | Installation | Headers | Changelog

Library Dependencies platformio.ini

The PlatformIO Registry is fully compatible with Semantic Versioning and its "version" scheme `<major>.<minor>.<patch>`. You can declare library dependencies in "platformio.ini" configuration file using lib_deps option.

```
; platformio.ini - project configuration file

[env:my_build_env]
platform = infineonxmc
framework = arduino
lib_deps =
  # RECOMMENDED
  # Accept new functionality in a backwards compatible manner and patches
  adafruit/Adafruit BME280 Library @ ^2.1.0

  # Acept only backwards compatible bug fixes
  # (any version with the same major and minor versions, and an equal or greater patch version)
  adafruit/Adafruit BME280 Library @ ~2.1.0

  # The exact version
  adafruit/Adafruit BME280 Library @ 2.1.0
```

Kenapa ATOM / VSCODE???

- Deteksi port serial otomatis
- Autocomplete
- Error Highlight
- Multiple tabs
- Code folding
- Advance code navigation


THANK YOU VERY MUCH