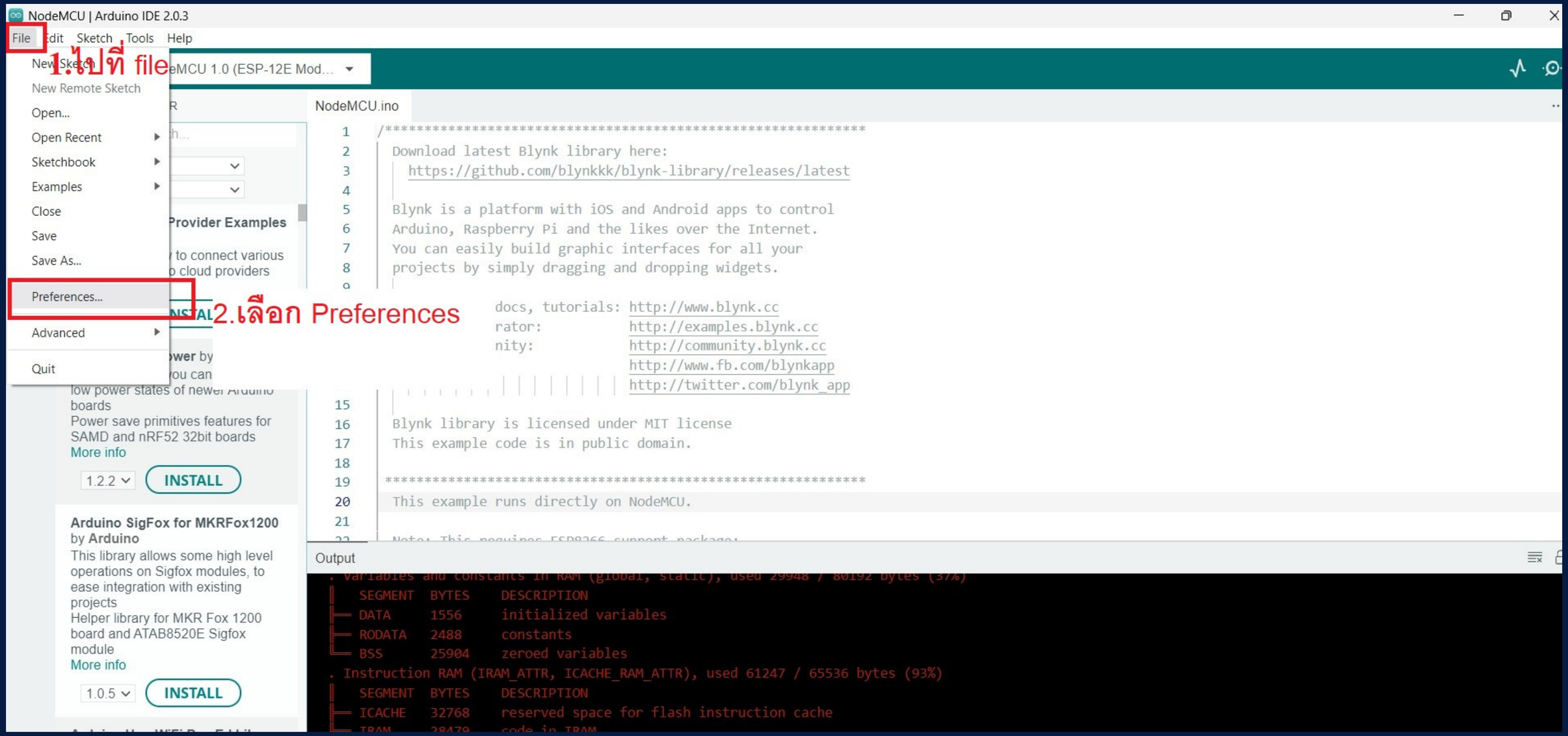
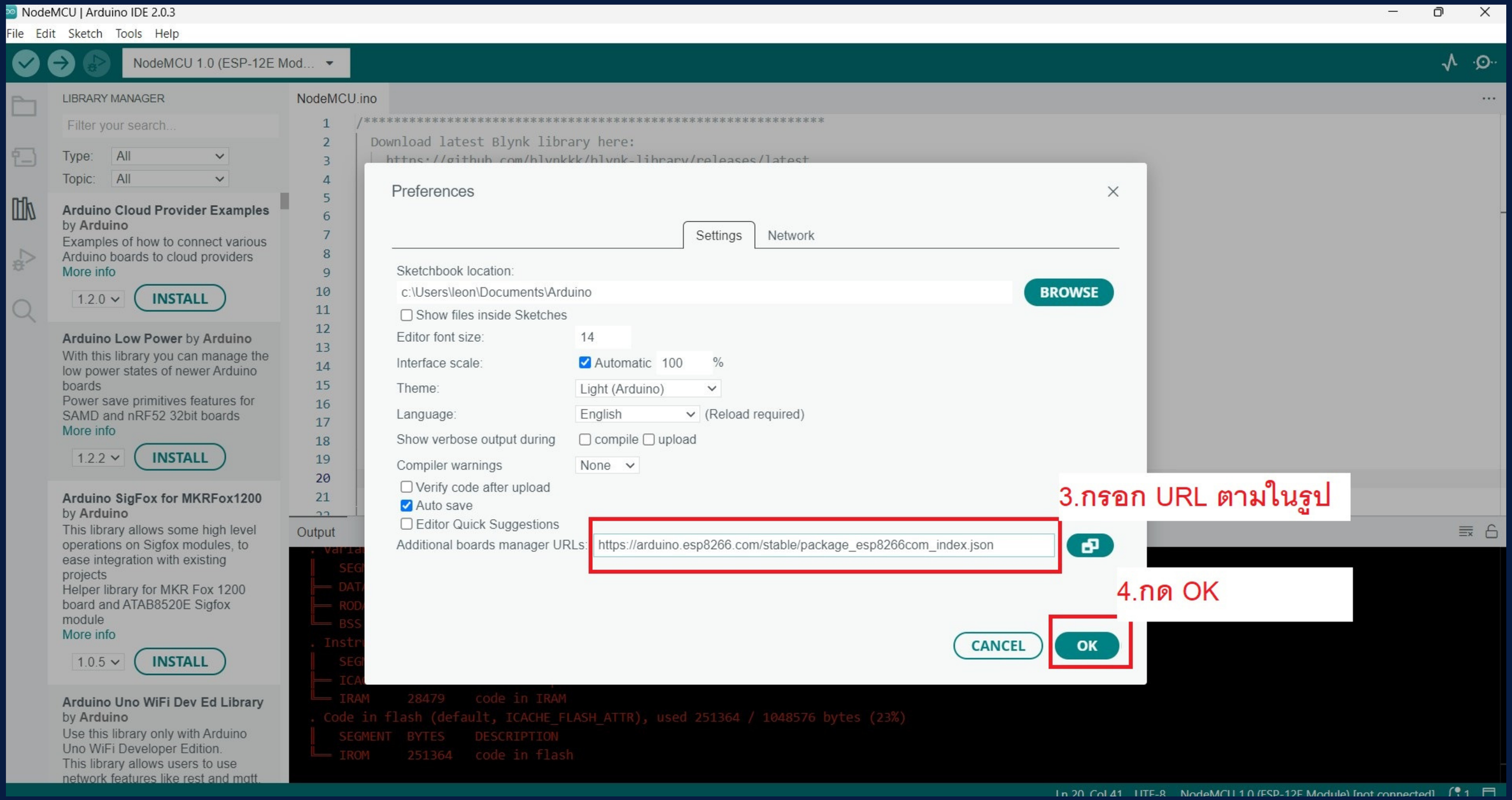
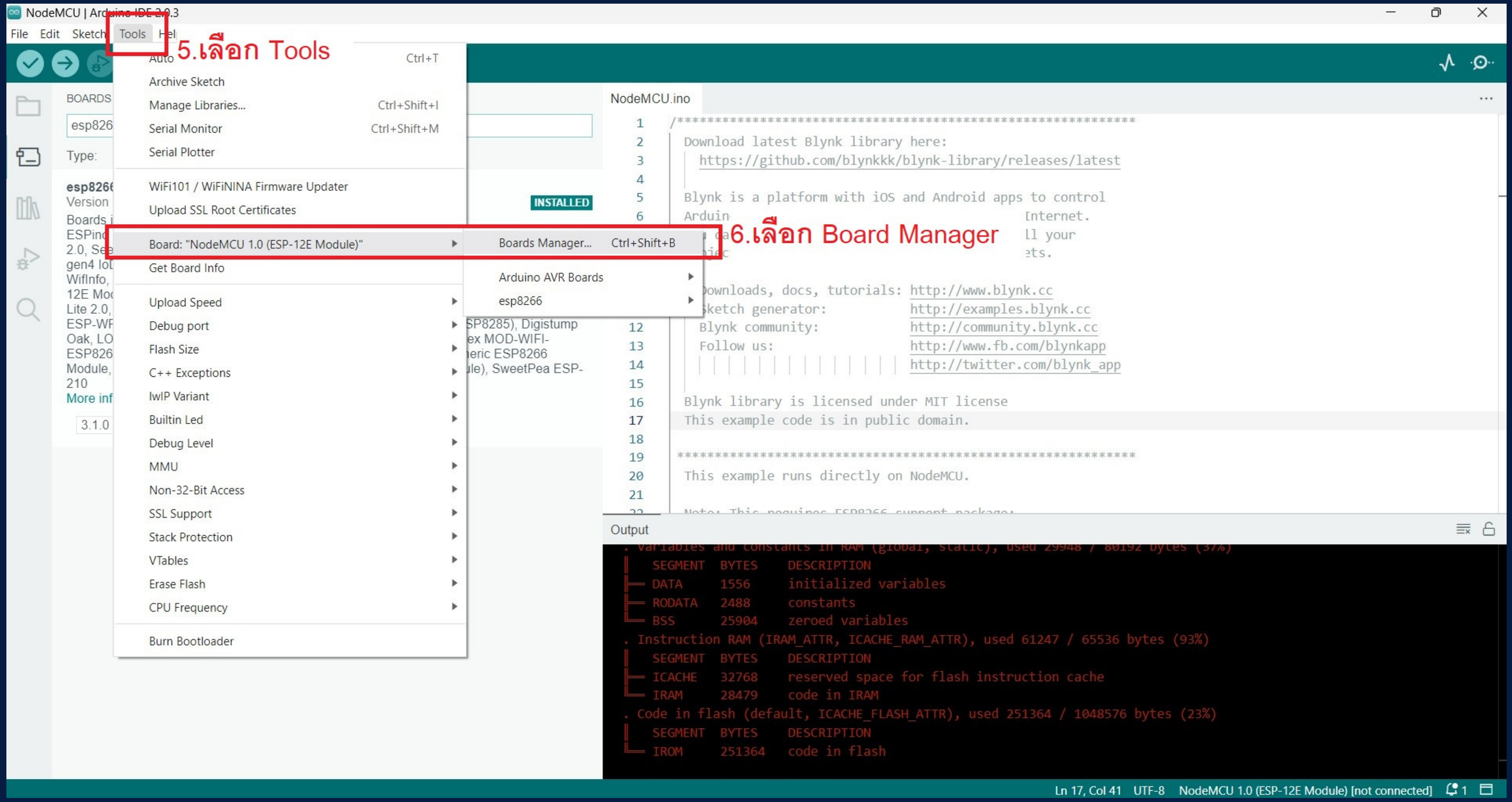
วิธีการ Setup ESP8266


NodeMCU | Arduino IDE 2.0.3
File Edit Sketch Tools Help
1.ไปที่ file
New Sketch
New Remote Sketch
Open...
Open Recent
Sketchbook
Examples
Close
Save
Save As...
Preferences...
2.เลือก Preferences
Advanced
Quit
eMCU 1.0 (ESP-12E Mod...
NodeMCU.ino
/***
Download latest Blynk library here:
https://github.com/blynkkk/blynk-library/releases/latest
Blynk is a platform with iOS and Android apps to control
Arduino, Raspberry Pi and the likes over the Internet.
You can easily build graphic interfaces for all your
projects by simply dragging and dropping widgets.
docs, tutorials: http://www.blynk.cc
rator: http://examples.blynk.cc
nity: http://community.blynk.cc
http://www.fb.com/blynkapp
http://twitter.com/blynk_app
Blynk library is licensed under MIT license
This example code is in public domain.
****
This example runs directly on NodeMCU.
Provider Examples
to connect various
cloud providers
low power states of newer Arduino boards
Power save primitives features for SAMD and nRF52 32bit boards
More info
1.2.2
INSTALL
Arduino SigFox for MKRFox1200
by Arduino
This library allows some high level operations on Sigfox modules, to ease integration with existing projects
Helper library for MKR Fox 1200 board and ATAB8520E Sigfox module
More info
1.0.5
INSTALL
Output
SEGMENT BYTES DESCRIPTION
DATA 1556 initialized variables
RODATA 2488 constants
BSS 25904 zeroed variables
. Instruction RAM (IRAM_ATTR, ICACHE_RAM_ATTR), used 61247 / 65536 bytes (93%)
SEGMENT BYTES DESCRIPTION
ICACHE 32768 reserved space for flash instruction cache


NodeMCU | Arduino IDE 2.0.3
File Edit Sketch Tools Help
NodeMCU 1.0 (ESP-12E Mod...
LIBRARY MANAGER
Filter your search...
Type: All
Topic: All
Arduino Cloud Provider Examples by Arduino
Examples of how to connect various Arduino boards to cloud providers
More info
1.2.0 INSTALL
Arduino Low Power by Arduino
With this library you can manage the low power states of newer Arduino boards
Power save primitives features for SAMD and nRF52 32bit boards
More info
1.2.2 INSTALL
Arduino SigFox for MKRFox1200 by Arduino
This library allows some high level operations on Sigfox modules, to ease integration with existing projects
Helper library for MKR Fox 1200 board and ATAB8520E Sigfox module
More info
1.0.5 INSTALL
Arduino Uno WiFi Dev Ed Library by Arduino
Use this library only with Arduino Uno WiFi Developer Edition.
This library allows users to use network features like rest and mqtt.
NodeMCU.ino
Preferences
Settings
Network
Sketchbook location:
c:\Users\leon\Documents\Arduino
BROWSE
Show files inside Sketches
Editor font size: 14
Interface scale: Automatic 100 %
Theme: Light (Arduino)
Language: English (Reload required)
Show verbose output during compile upload
Compiler warnings None
Verify code after upload
Auto save
Editor Quick Suggestions
Additional boards manager URLs: https://arduino.esp8266.com/stable/package_esp8266com_index.json
3.กรอก URL ตามในรูป
4.กด OK
CANCEL
OK
Output
IRAM 28479 code in IRAM
Code in flash (default, ICACHE_FLASH_ATTR), used 251364 / 1048576 bytes (23%)
SEGMENT BYTES DESCRIPTION
IROM 251364 code in flash


NodeMCU | Arduino IDE 2.0.3
File Edit Sketch Tools Hel
5.เลือก Tools
Auto Ctrl+T
Archive Sketch
Manage Libraries... Ctrl+Shift+I
Serial Monitor Ctrl+Shift+M
Serial Plotter
WiFi101 / WiFiNINA Firmware Updater
Upload SSL Root Certificates
Board: "NodeMCU 1.0 (ESP-12E Module)"
Get Board Info
Upload Speed
Debug port
Flash Size
C++ Exceptions
lwIP Variant
Builtin Led
Debug Level
MMU
Non-32-Bit Access
SSL Support
Stack Protection
VTables
Erase Flash
CPU Frequency
Burn Bootloader
Boards Manager... Ctrl+Shift+B
Arduino AVR Boards
esp8266
6.เลือก Board Manager
BOARDS
esp826
Type:
INSTALLED
NodeMCU.ino
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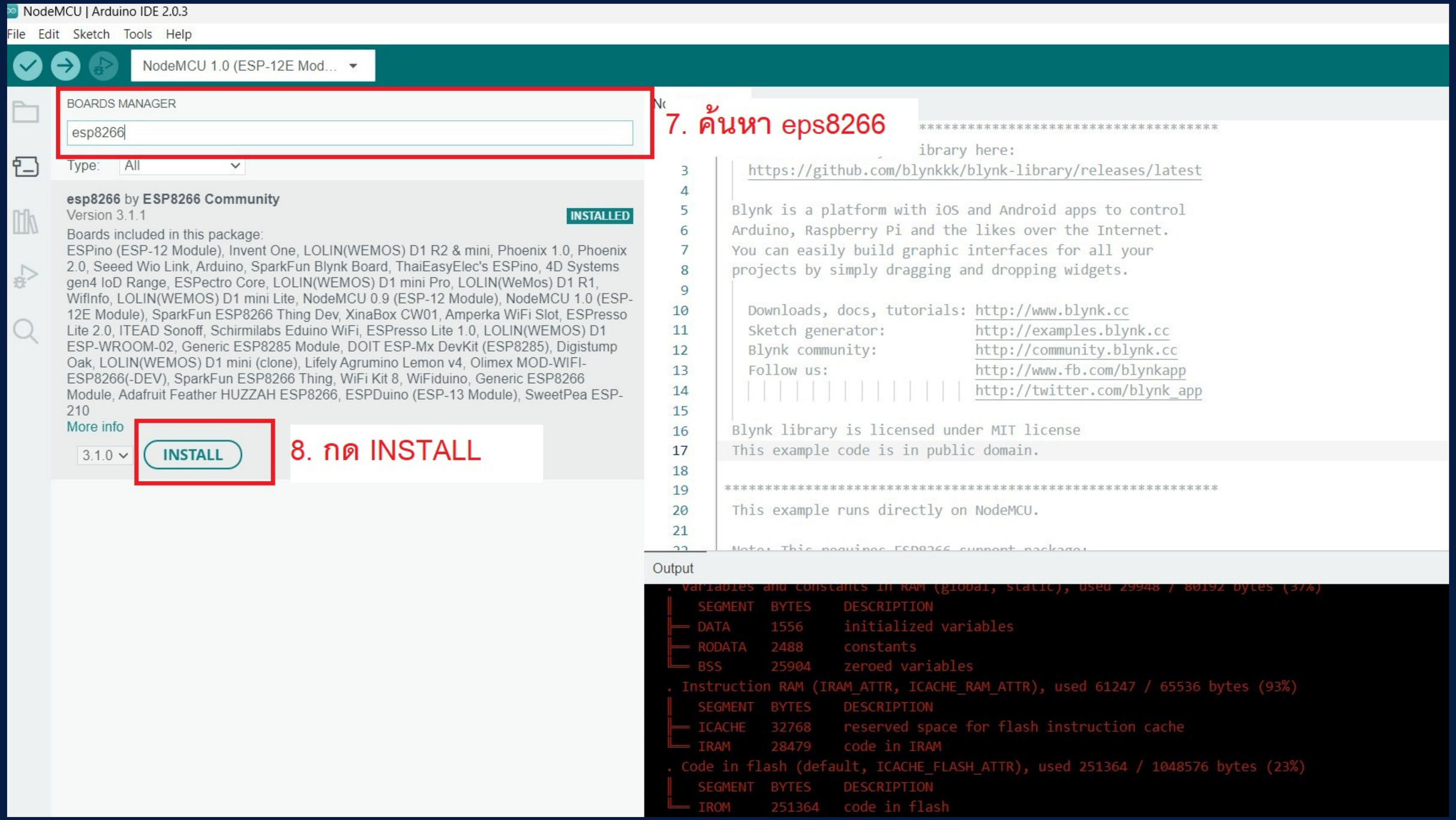
Output
SEGMENT BYTES DESCRIPTION
DATA 1556 initialized variables
RODATA 2488 constants
BSS 25904 zeroed variables
Instruction RAM (IRAM_ATTR, ICACHE_RAM_ATTR), used 61247 / 65536 bytes (93%)
SEGMENT BYTES DESCRIPTION
ICACHE 32768 reserved space for flash instruction cache
IRAM 28479 code in IRAM
Code in flash (default, ICACHE_FLASH_ATTR), used 251364 / 1048576 bytes (23%)
SEGMENT BYTES DESCRIPTION
IROM 251364 code in flash
Ln 17, Col 41 UTF-8 NodeMCU 1.0 (ESP-12E Module) [not connected]


NodeMCU | Arduino IDE 2.0.3
File Edit Sketch Tools Help
NodeMCU 1.0 (ESP-12E Mod...
BOARDS MANAGER
esp8266
Type: All
esp8266 by ESP8266 Community
Version 3.1.1
INSTALLED
Boards included in this package:
ESPino (ESP-12 Module), Invent One, LOLIN(WEMOS) D1 R2 & mini, Phoenix 1.0, Phoenix 2.0, Seeed Wio Link, Arduino, SparkFun Blynk Board, ThaiEasyElec's ESPino, 4D Systems gen4 IoD Range, ESPectro Core, LOLIN(WEMOS) D1 mini Pro, LOLIN(WeMos) D1 R1, WifInfo, LOLIN(WEMOS) D1 mini Lite, NodeMCU 0.9 (ESP-12 Module), NodeMCU 1.0 (ESP-12E Module), SparkFun ESP8266 Thing Dev, XinaBox CW01, Amperka WiFi Slot, ESPresso Lite 2.0, ITEAD Sonoff, Schirmilabs Eduino WiFi, ESPresso Lite 1.0, LOLIN(WEMOS) D1 ESP-WROOM-02, Generic ESP8285 Module, DOIT ESP-Mx DevKit (ESP8285), Digistump Oak, LOLIN(WEMOS) D1 mini (clone), Lifely Agrumino Lemon v4, Olimex MOD-WIFI-ESP8266(-DEV), SparkFun ESP8266 Thing, WiFi Kit 8, WiFiduino, Generic ESP8266 Module, Adafruit Feather HUZZAH ESP8266, ESPDuino (ESP-13 Module), SweetPea ESP-210
More info
3.1.0
INSTALL
7. ค้นหา eps8266
8. กด INSTALL
https://github.com/blynkkk/blynk-library/releases/latest
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http://twitter.com/blynk_app
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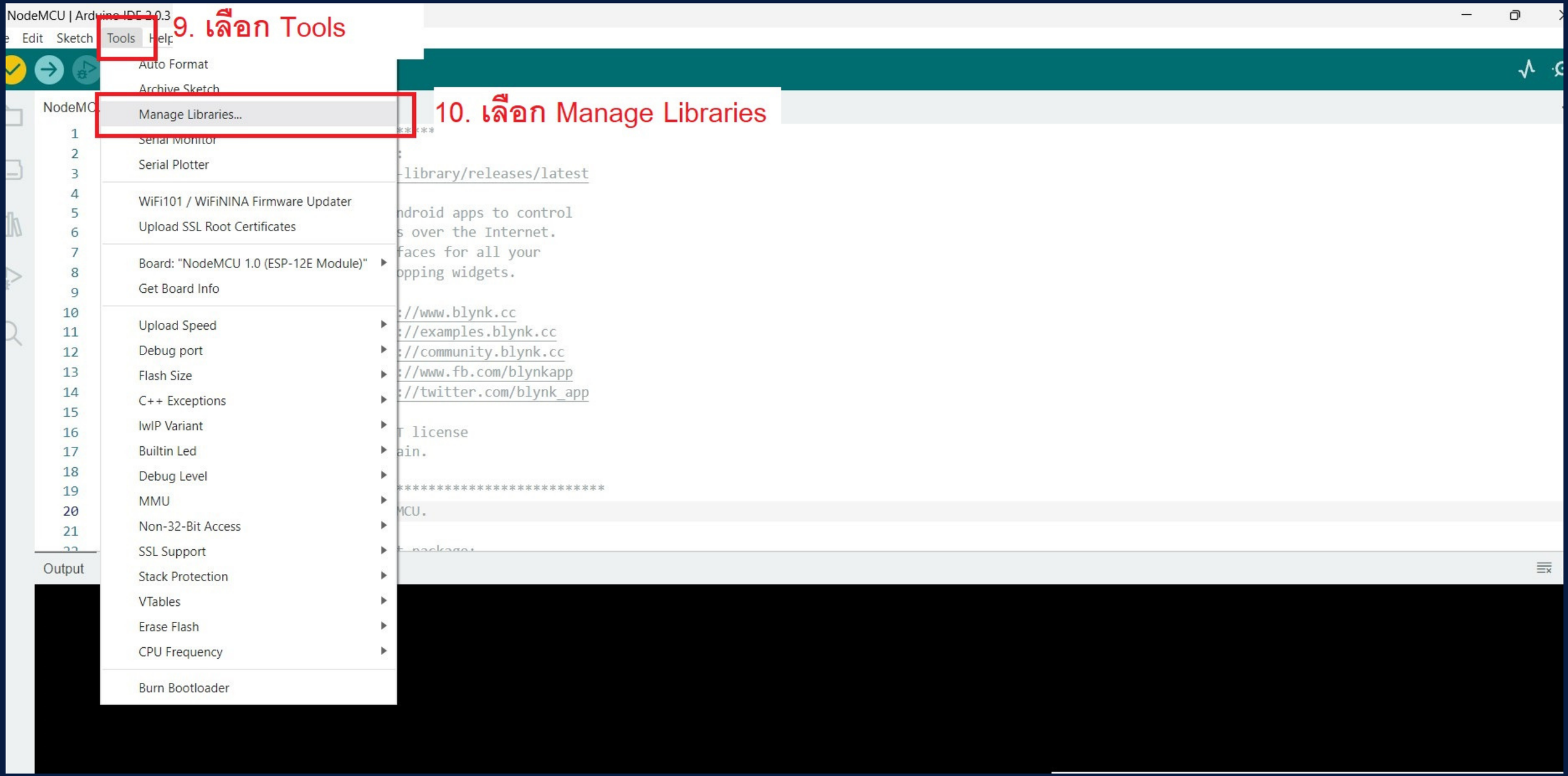
Output
SEGMENT BYTES DESCRIPTION
DATA 1556 initialized variables
RODATA 2488 constants
BSS 25904 zeroed variables
. Instruction RAM (IRAM_ATTR, ICACHE_RAM_ATTR), used 61247 / 65536 bytes (93%)
SEGMENT BYTES DESCRIPTION
ICACHE 32768 reserved space for flash instruction cache
IRAM 28479 code in IRAM
. Code in flash (default, ICACHE_FLASH_ATTR), used 251364 / 1048576 bytes (23%)
SEGMENT BYTES DESCRIPTION
IROM 251364 code in flash


NodeMCU | Arduino IDE 2.0.3
9. เลือก Tools
Edit
Sketch
Tools
Help
Auto Format
Archive Sketch
Manage Libraries...
Serial Monitor
Serial Plotter
WiFi101 / WiFiNINA Firmware Updater
Upload SSL Root Certificates
Board: "NodeMCU 1.0 (ESP-12E Module)"
Get Board Info
Upload Speed
Debug port
Flash Size
C++ Exceptions
lwIP Variant
Builtin Led
Debug Level
MMU
Non-32-Bit Access
SSL Support
Stack Protection
VTables
Erase Flash
CPU Frequency
Burn Bootloader
10. เลือก Manage Libraries
NodeMC
Output

NodeMCU | Arduino IDE 2.0.3

File Edit Sketch Tools Help

NodeMCU 1.0 (ESP-12E Mod...

LIBRARY MANAGER

blynk

Type: All

Topic: All

Blynk by **Volodymyr Shymanskyy**
Version 1.1.0 INSTALLED
It supports WiFi, BLE, Bluetooth, Ethernet, GSM, USB, Serial. Works with many boards like ESP8266, ESP32, Arduino UNO, Nano, Due, Mega, Zero, MKR100, Yun, Raspberry Pi, Particle, Energia, ARM mbed, Intel Edison/Galileo/Joule, BBC micro:bit, DFRobot, RedBearLab, Microduino, LinkIt ONE ...
Build a smartphone app for your project in minutes!
More info
1.0.1 INSTALL

11. ค้นหา blynk

12. กด INSTALL

Blynk For Chinese by **hznupeter**
利用Blynk平台，可以快速搭建物联网应用。
Build a smartphone app for your project in minutes!
More info
0.5.9 INSTALL

Blynk_Async_ESP32_BT_WF by **Khoi Hoang**
By design, Blynk user can run ESP32 boards with either WiFi or BT/BLE by using different sketches, and have to upload / update firmware to change. This library enables user to include both Blynk BT / BLE and WiFi libraries in one sketch, run both WiFi and BT/BLE simultaneously, or select one to use at runtime after reboot. This library also supports (auto)connection to MultiWiFi and MultiBlynk, dynamic custom as well as static parameters in Config Portal. Eliminate hardcoding your Wifi and Blynk credentials and configuration data saved in either LittleFS, SPIFFS or EEPROM. Optional default Credentials to be autoloaded into Config Portal to use or change instead of manually input. Static STA IP and DHCP Hostname as well as Config Portal AP channel, IP, SSID, Password can be configured. DoubleDetectDetector feature permits entering Config Portal as requested. Now with scanning of WiFi networks for selection in Configuration Portal.
Simple WiFiManager for Blynk and ESP32 with or without SSL, configuration data saved in either SPIFFS or EEPROM. Enable inclusion of both ESP32 Blynk BT/BLE and WiFi libraries. Then select one at reboot or run both. Eliminate hardcoding your Wifi and Blynk credentials and configuration data saved in either LittleFS, SPIFFS or EEPROM. Using AsyncWebServer instead of WebServer, with WiFi networks scanning for selection in Configuration Portal.

```
**********
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    Sketch generator:           http://examples.blynk.cc
    Blynk community:            http://community.blynk.cc
    Follow us:                  http://www.fb.com/blynkapp
                                http://twitter.com/blynk_app

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**************************************************************
  This example runs directly on NodeMCU.

  Note: This requires ESP8266 support package:
```

Output

```
. Variables and constants in RAM (global, static), used 29948 / 80192 bytes (37%)
|   SEGMENT  BYTES    DESCRIPTION
|-- DATA     1556     initialized variables
|-- RODATA   2488     constants
`-- BSS      25904    zeroed variables
. Instruction RAM (IRAM_ATTR, ICACHE_RAM_ATTR), used 61247 / 65536 bytes (93%)
|   SEGMENT  BYTES    DESCRIPTION
|-- ICACHE   32768    reserved space for flash instruction cache
`-- IRAM     28479    code in IRAM
. Code in flash (default, ICACHE_FLASH_ATTR), used 251364 / 1048576 bytes (23%)
|   SEGMENT  BYTES    DESCRIPTION
`-- IROM     251364   code in flash
```