



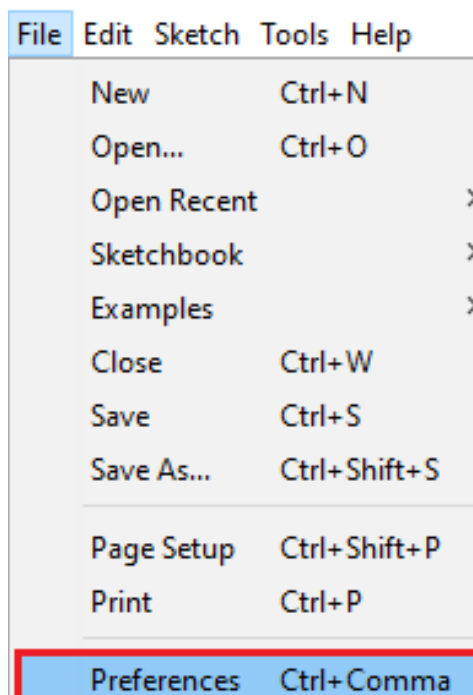
ESP32

ESP32 ALGORITHM

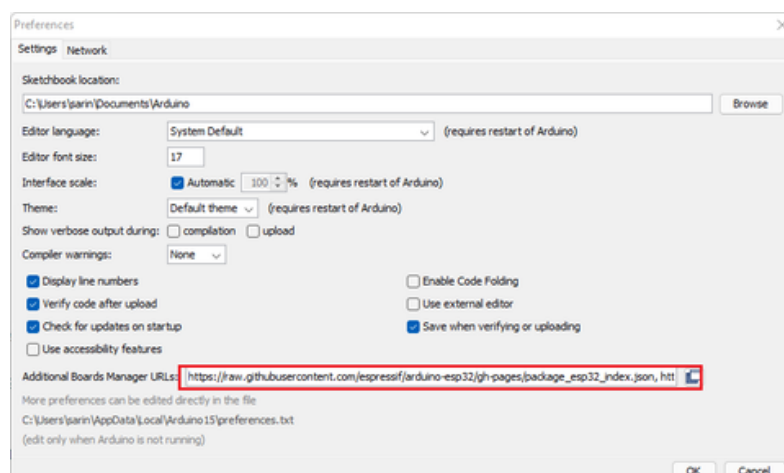
1- First Download Arduino IDE.

2- Install the ESP32 board:

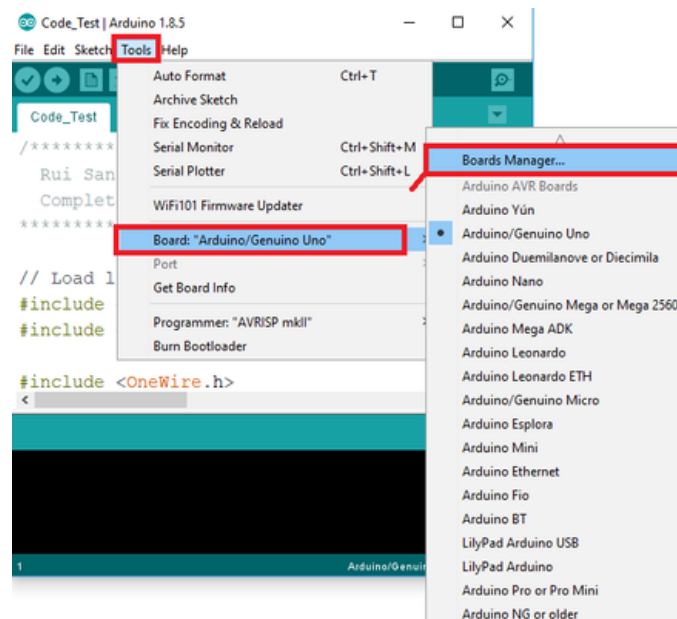
- In your Arduino IDE, go to File> Preferences



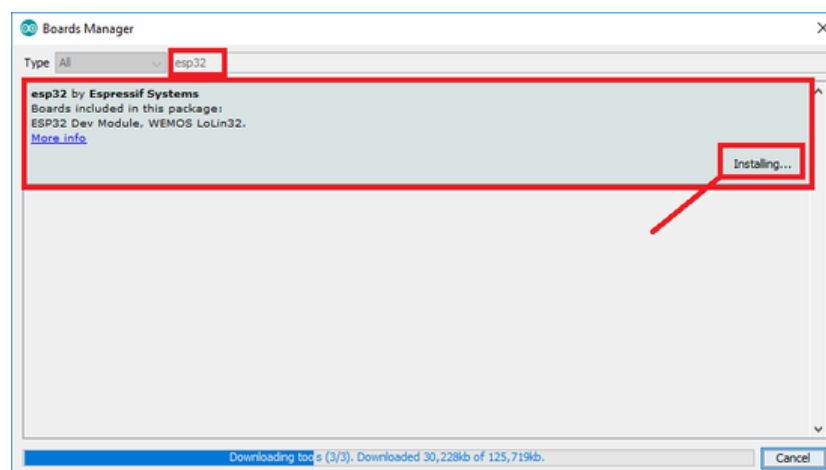
- In Additional Board Manager URLs" field enter [https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json] Then, click the "OK"



- Open the Boards Manager. Go to Tools > Board > Boards Manager

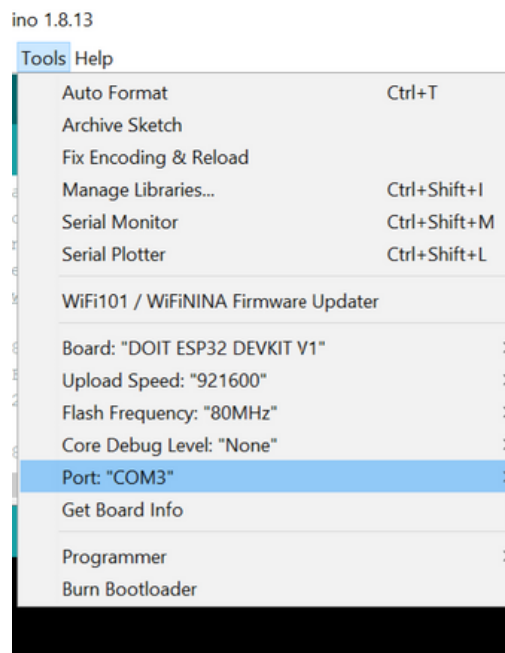


- Search for ESP32 and press install button for the



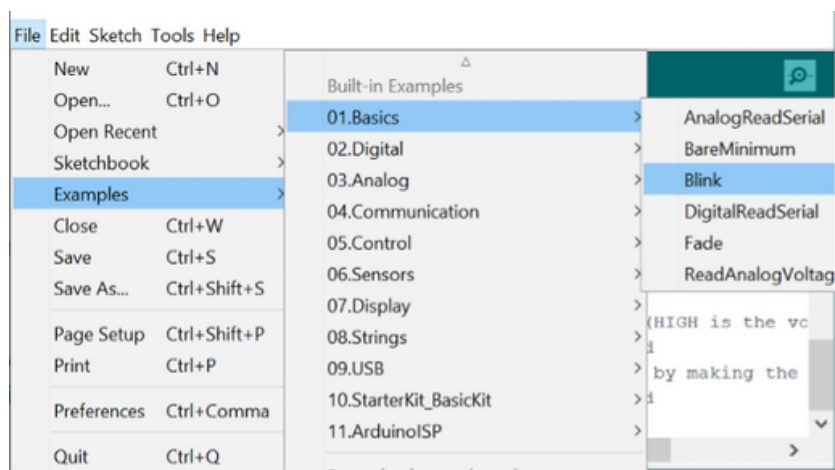
3-Connect ESP32 with usb wire

- Plug the USB cable
- Select your Board in Tools
- Select the Port "COM3"



4-Program ESP32 using Arduino IDE to Blink an LED

- File > Examples > 01.Basics > Blink



- Code

```
Blink

// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000);                     // wait for a second
  digitalWrite(LED_BUILTIN, LOW);  // turn the LED off by making the voltage LOW
  delay(1000);                     // wait for a second
}
```