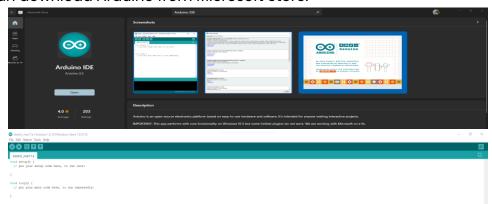
JOBSHEET 1

Omar Al-Maktary
TI-3H 1941720237

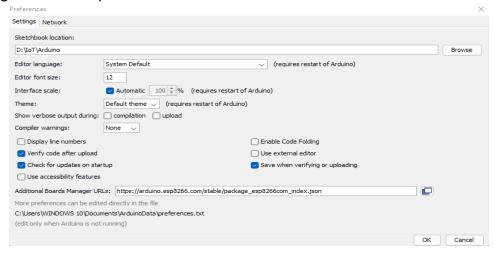
Practical Steps:

1. Download and install Arduino IDE:

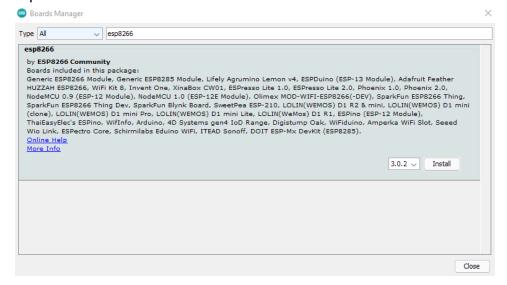
We can download Arduino from Microsoft Store:



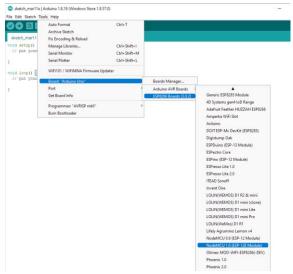
2. Configure Arduino preference:



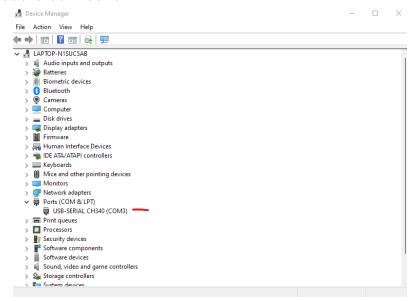
3. Install Esp8266:



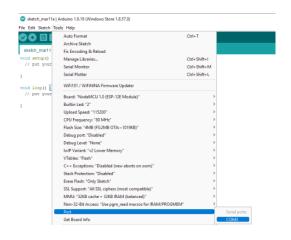
4. Choose the board NodeMCU 1.0 (ESP-12E Module):



5. Check the board connection:



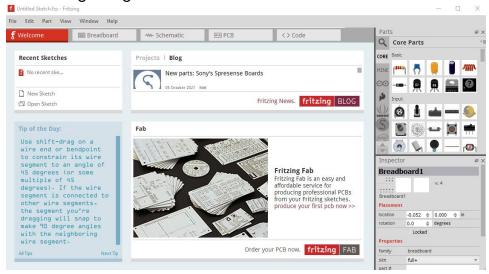
6. Select COM3:



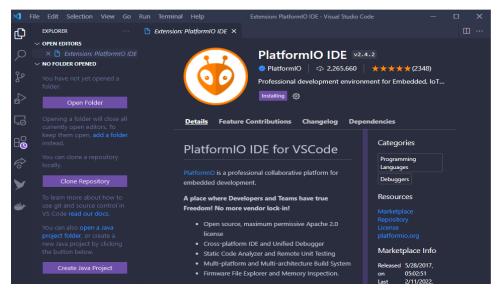
7. Compiling to the ESP8266 board:



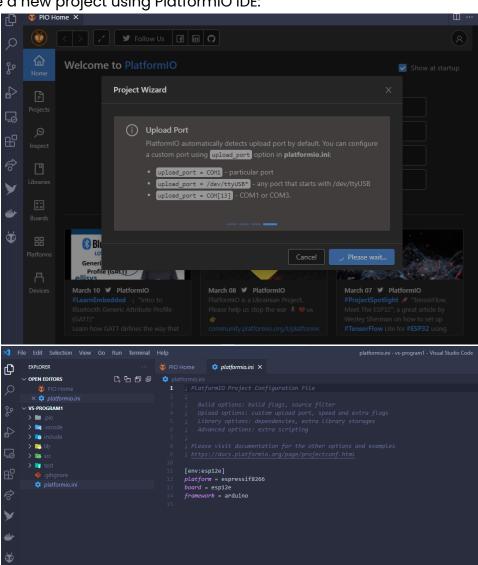
8. Download Fritzing Designer:



9. Download PlatformIO IDE extension to Visual Studio:



10. Create a new project using PlatformIO IDE:



11. Configure the "Hello World" code:

```
#include <Arduino.h>

void setup()

// put your setup code here, to run once:

Serial.begin(115200); // setbaudrate 115200

void loop()

// put your main code here, to run repeatedly:

// put your main code here, to run repeatedly:

Serial.println("Hello world"); // show the following string to the serial monitor delay(1000); // delay 1000 ms
```

12. Build, upload, and show the serial monitor the project



13. Make the LED run:

Results:

