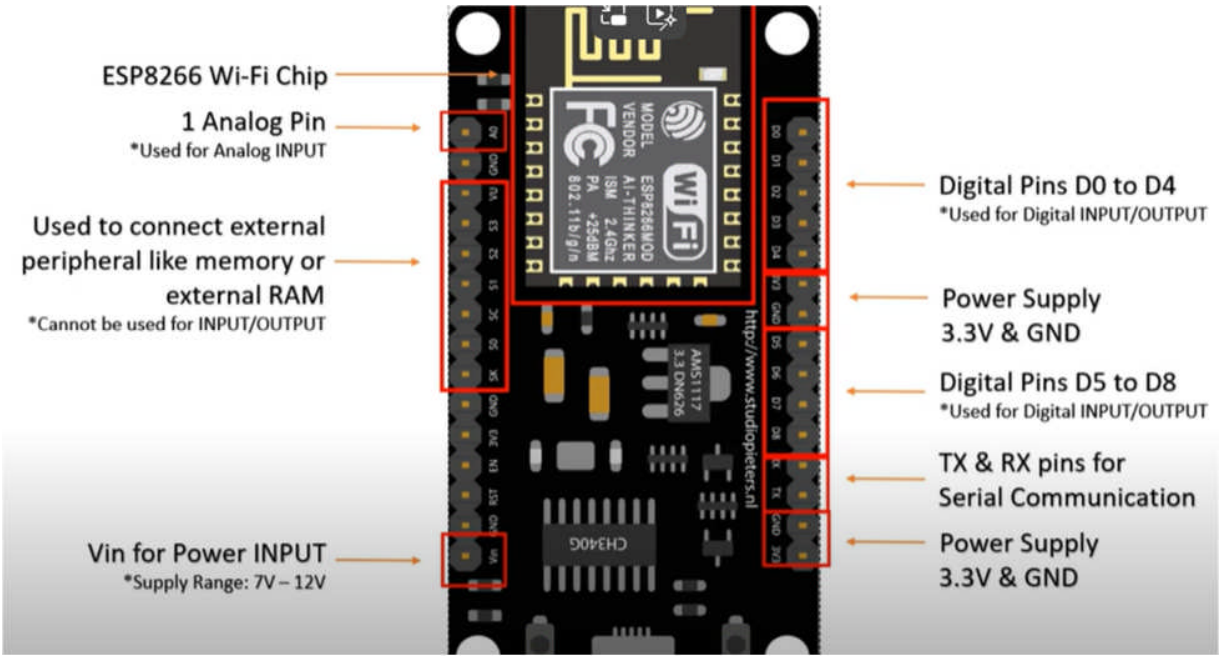
LAB MANUAL 3

Getting Started with Node MCU ESP8266

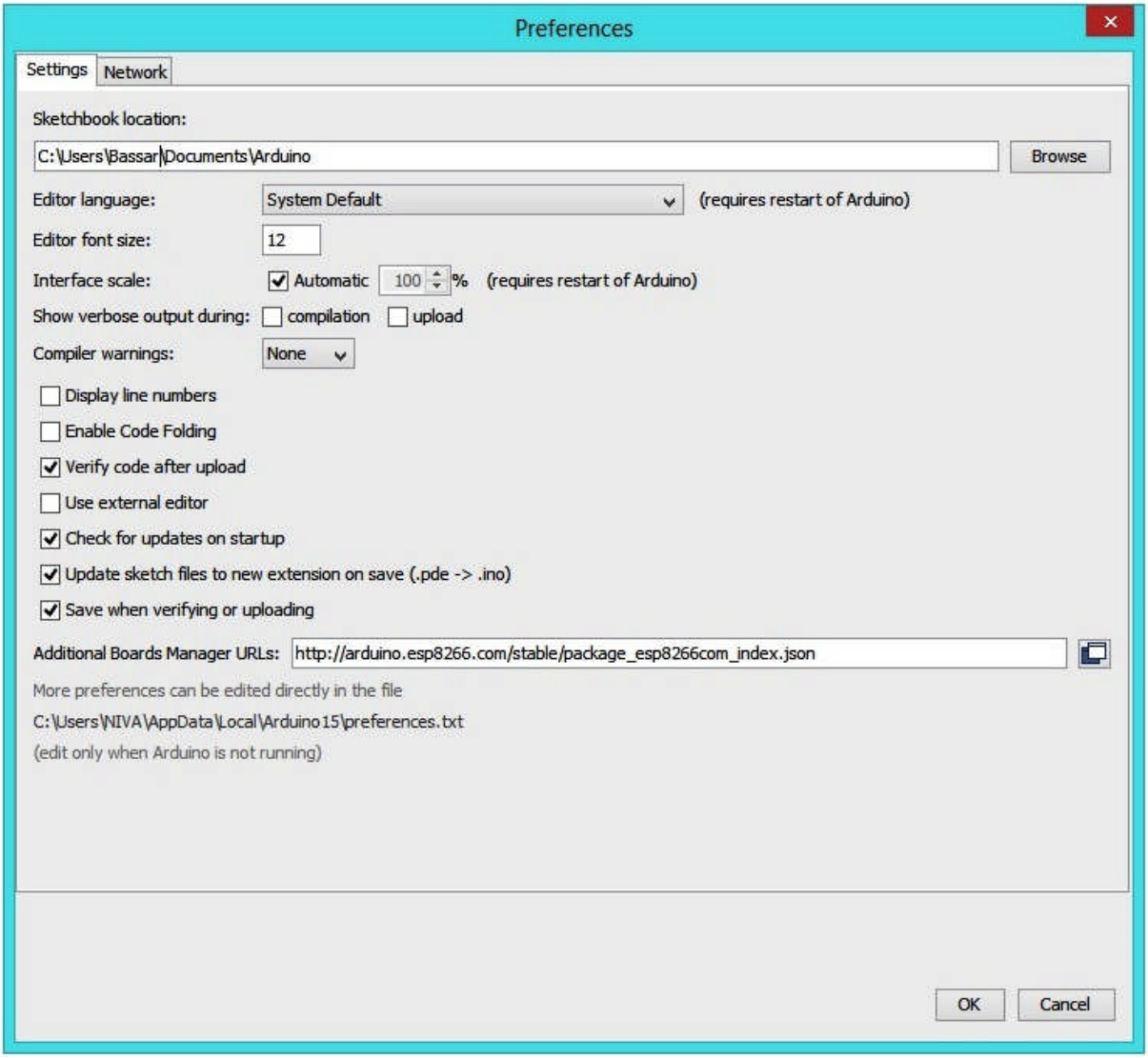


NodeMCU

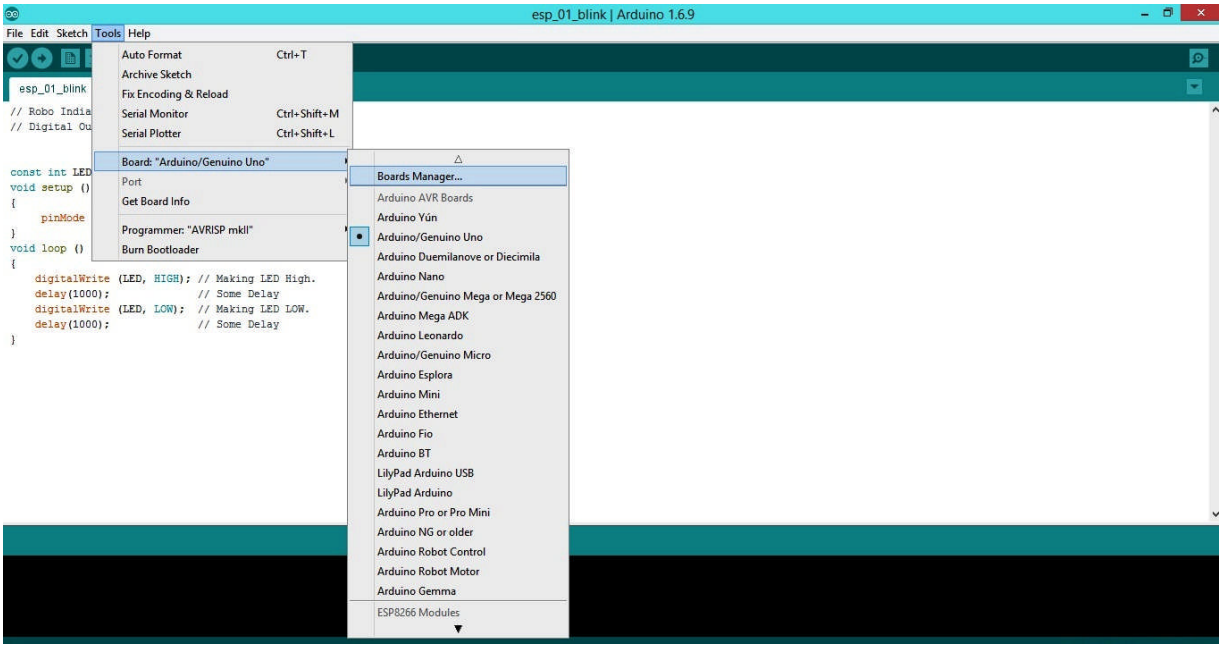
The basic process to get started with NodeMCU consists of the following two stages.

A. Installing the NodeMCU Support for the Arduino

1. First open the Arduino IDE
2. Go to files and click on the preference in the Arduino IDE



3. Paste below URL in the Additional boards Manager
   http://arduino.esp8266.com/stable/package_esp8266com_index.json
4. click OK, It will close the preference Tab.
5. Now, Go to Tools and board, and then select board Manager

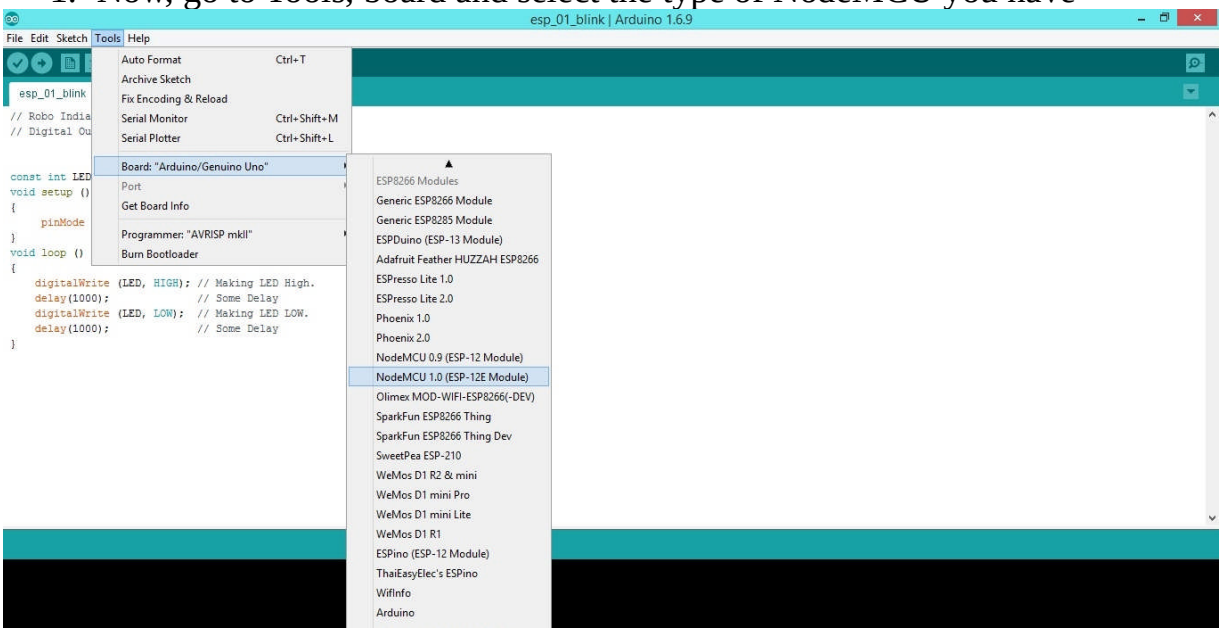


6. Navigate to ESP8266 by ESP8266 community and install the software.

7. Once all the above process is completed, we are ready to program our NodeMCU with Arduino IDE.

B. Lets Test It With Blink Programme

1. Now, go to Tools, board and select the type of NodeMCU you have



2. Then select the correct COM port to upload the program on your NodeMCU
3. Now Copy Paste the below code and upload it:-

```
void setup() {
  // initialize inbuilt LED pin as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// loop function runs over and over  again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH);   // turn the  LED on by making the
pin 13 HIGH
  delay(500);              // wait for a 0.5  second
  digitalWrite(LED_BUILTIN, LOW);    // turn the LED off by making the
pin 13 LOW
  delay(500);              // wait for a 0.5 second
}
```

4. If you did everything correctly then, your led should blink continuously.