1. Ultrasonic obstacle avoidance

1.1.Open source code

Open the tutorial provided by us, locate the folder of "**03_Tutorial_&_Code → Lesson3 Automatic obstacle avoidance → QuadBot-E-Auto**", and double-click **QuadBot-E-Auto.ino**, open the source code.
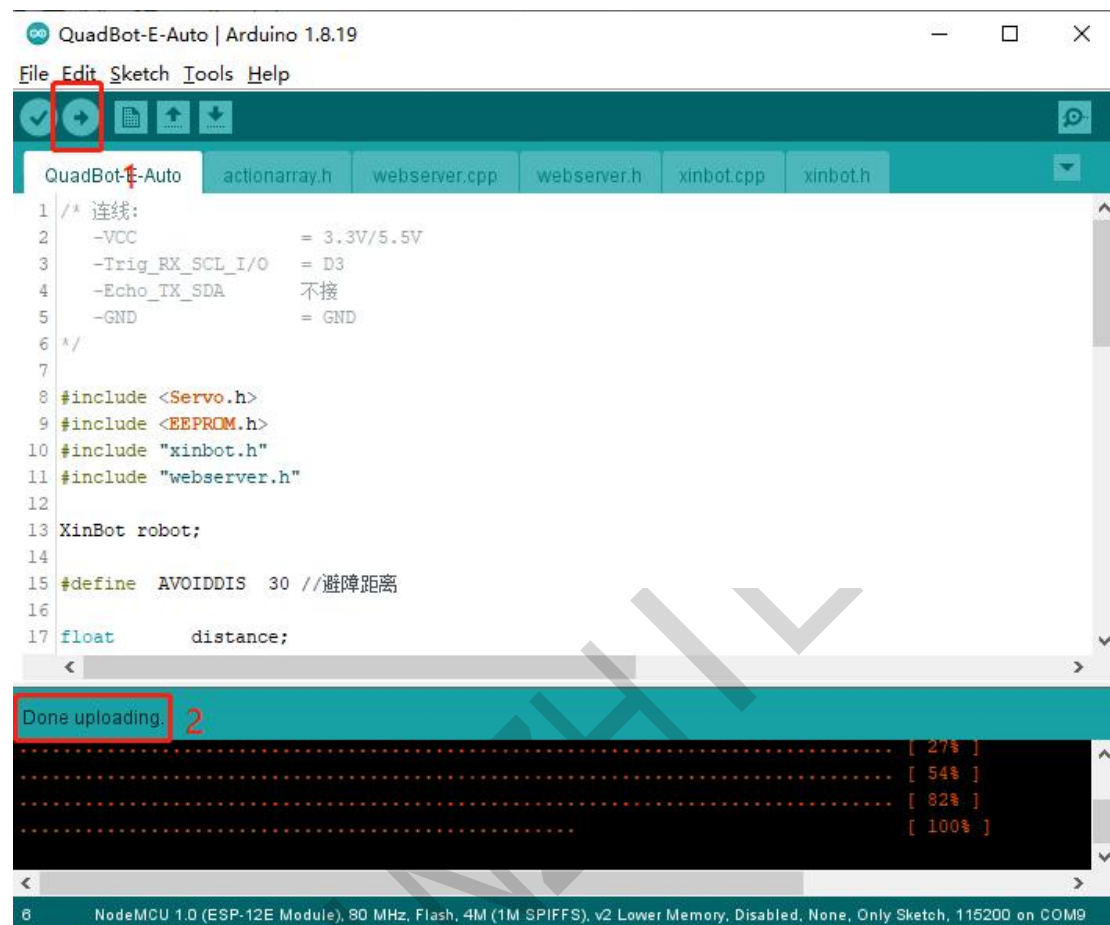
1.2. Compile source code

Click the 1 compile button as shown in the figure below, and if there is no problem, the 2 compile completion prompt will appear。

1.3. Upload code to NodeMcu

Connect the NodeMcu and the computer with a USB cable, select the correct COM port,

and then click the 1 "Download" button as shown in the figure below. If everything goes well, the 2 "Done uploading" prompt will appear. At this point, the program is downloaded successfully, and then unplug the USB cable。

1.4 Connect the ultrasonic module and servo shield

Servo shield   ultrasonic module

D3 -------------- Trig
+ -------------- Vcc
- --------------- Gnd

After power-on, the robot moves forward and turns when encountering obstacles