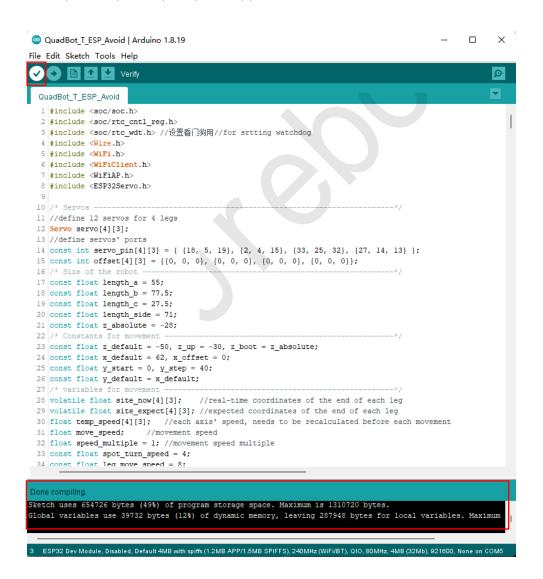
#### 1. Ultrasonic obstacle avoidance

# 1.1.Open source code

Open the tutorial provided by us, locate the folder of "03\_Tutorial\_&\_Code → Lesson5 Automatic obstacle avoidance → QuadBot\_T\_ESP\_Avoid", and double-click QuadBot\_T\_Avoid.ino, open the source code.

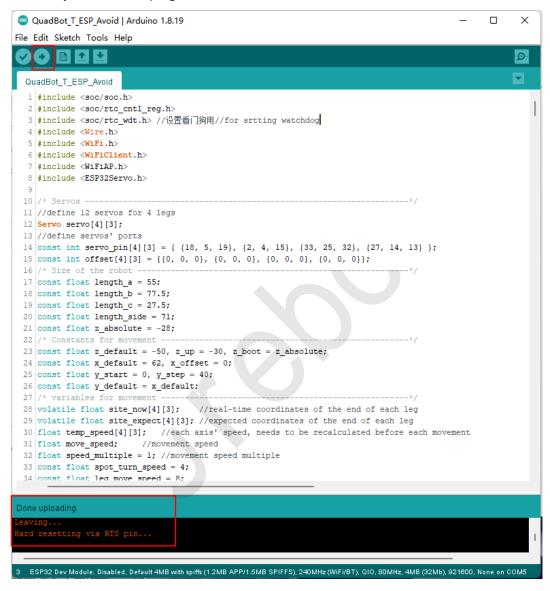
## 1.2. Compile source code

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

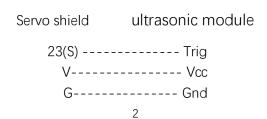


# 1.3. Upload code to ESP32

Connect the ESP32 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 "Upload succeeded" 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



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

