

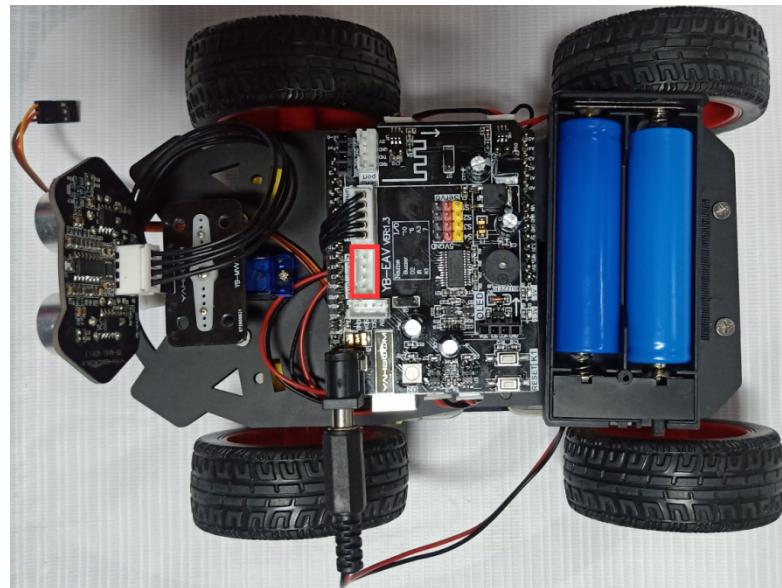
## Scratch course ---8.Ultrasonic Ranging

### 1. Learning goal

In this lesson, we will learn how to use ultrasonic module.

### 2. Preparation

2.1 The position of the ultrasonic port on the expansion board. As shown below.

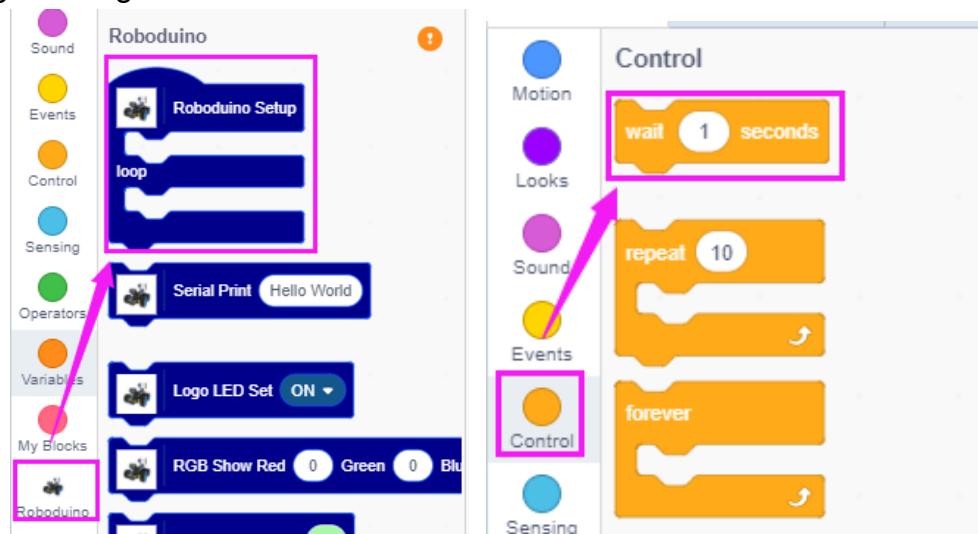


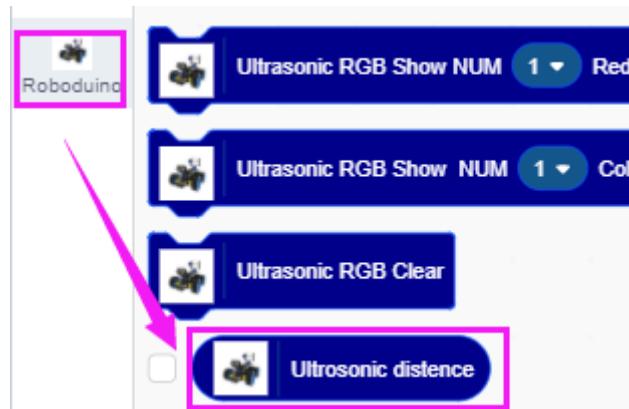
2.2 Learn how to use ultrasonic distance graphically program building blocks.

2.3 How to use Serial debugging assistant to view data.

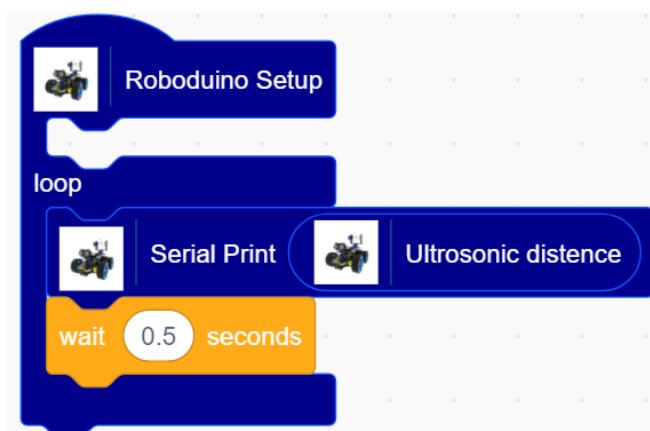
### 3. Search for blocks

The following is the location of the building blocks required for this programming.



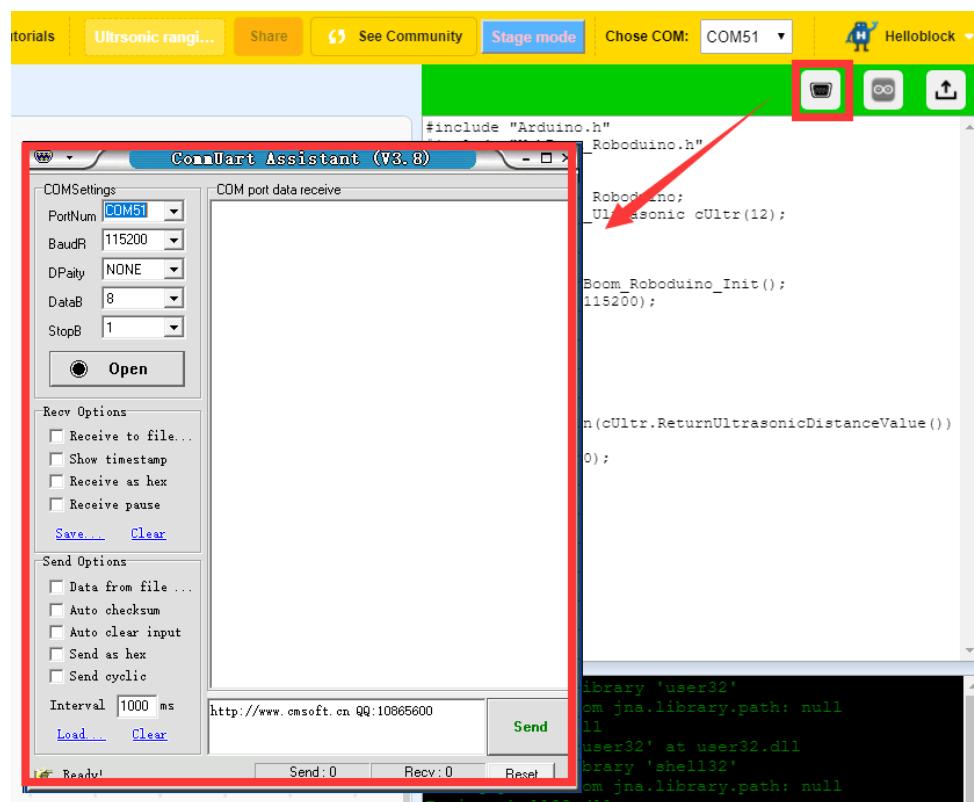


#### 4. Combine blocks

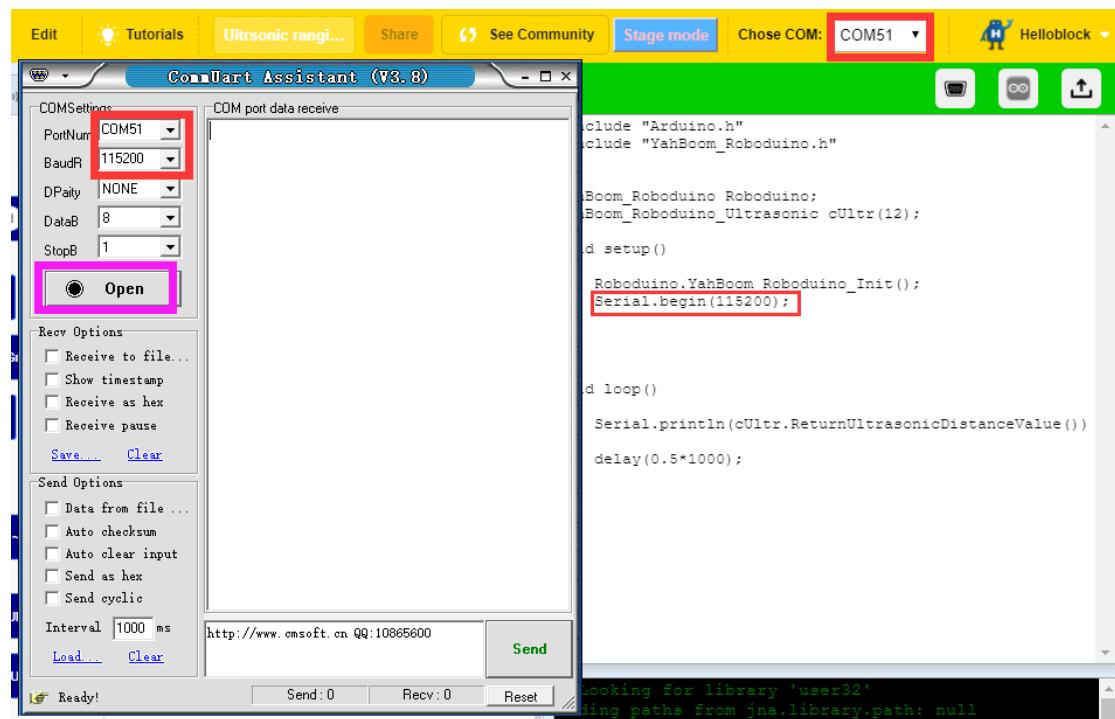


#### 5. Experimental phenomena

After the program is downloaded. We need to open the **Serial Monitor** in the upper right corner of the Helloblock.



And we need to select the same baud rate as set in the program. As shown below.



Next, we will see that the distance detected by the current ultrasonic module is printed on the serial monitor.

