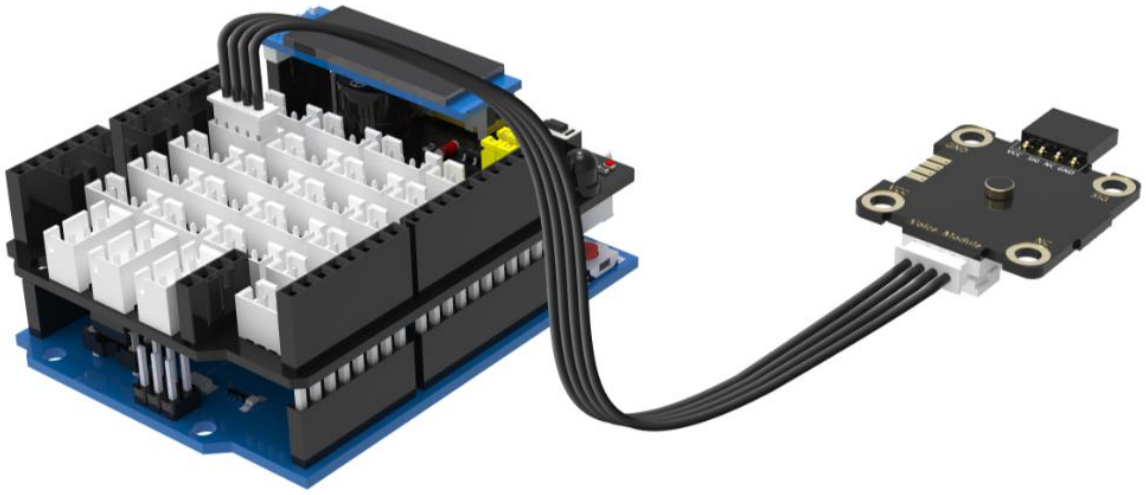
Experimental content: Read sound sensor analog value and display it on OLED

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, 4pin cable(PH2.0) *1, USB data cable *1, Sound sensor module *1, 0.91 inch OLED *1

Experimental wiring:

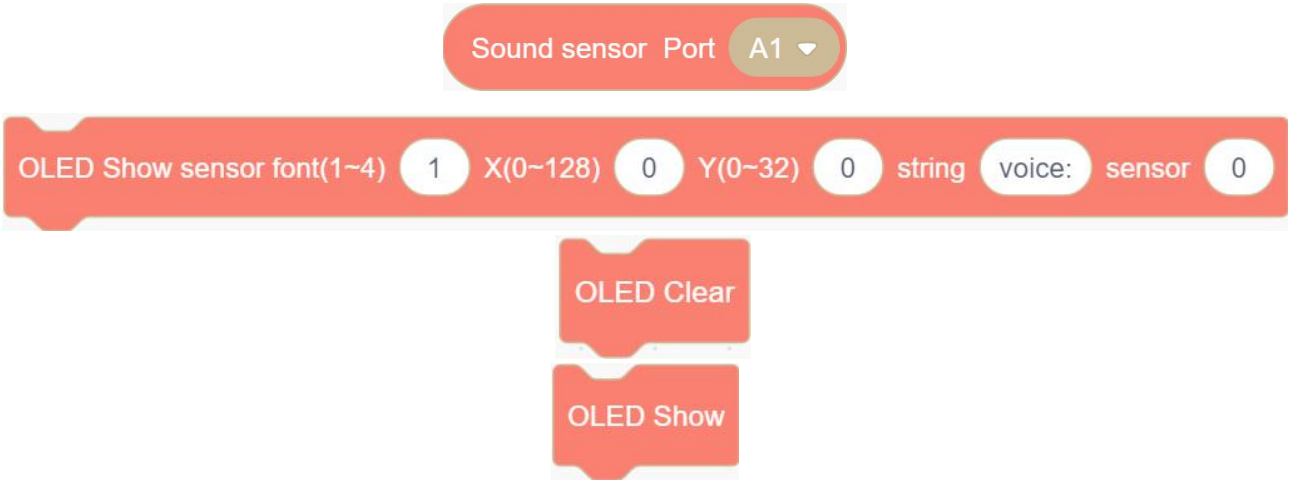


OLED is connected to the interface of the sensor expansion board with silk screen (SDA, SCL, VCC, GND).

Sound sensor module is connected to the connector of the sensor expansion board with silk screen (GND, A0, A1, 5V), SIG: A1.

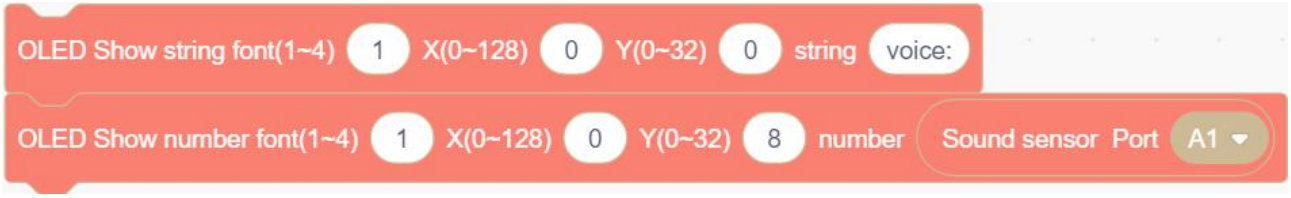
Experimental steps:

1.Select the following blocks in the [Plugkit], [Control].



2. Put the sound sensor block into the sensor data entry position of the OLED display sensor data block. The character of the OLED display sensor data block is changed to voice:, and the font size and starting position are not modified by default. As shown below.

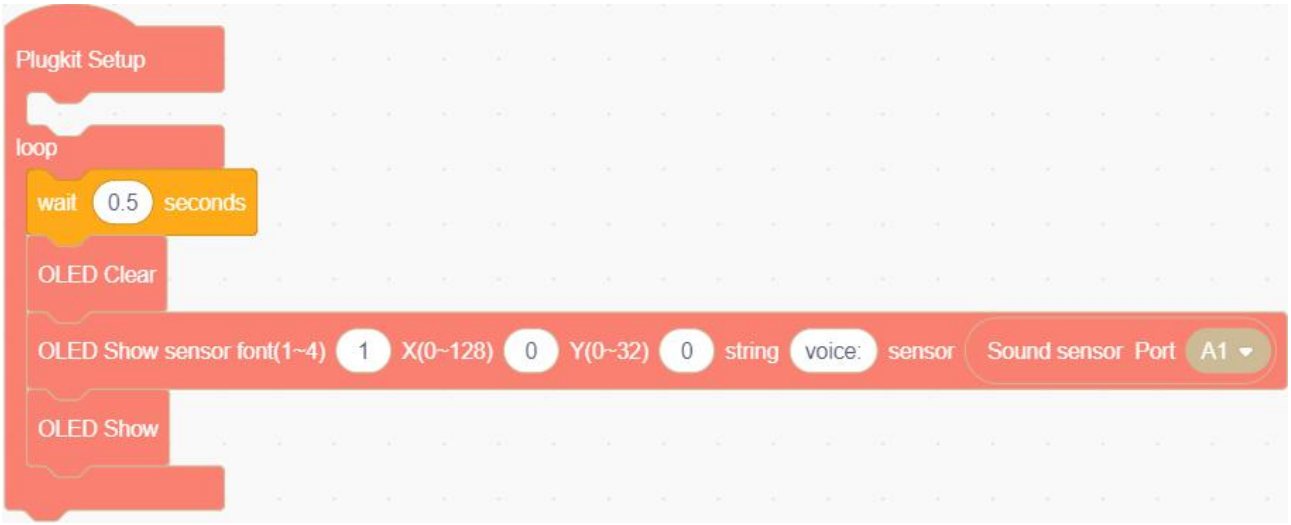
Expand: We can also use an OLED display string and an OLED display number to display the sensor data.



Equivalent to

Note: if we use multiple OLED display blocks, the starting display position needs to be set. The starting position set is (0, 8), which is the first line of the OLED display string and the second line of the OLED display data. We can also set it to (34, 0), so the OLED display string and data are also in first row.

3.Put the combination of the block of step 2 and the "wait 0.5 seconds" on the loop block.



4.Compiling and uploading programs.

Experimental phenomena: The OLED display shows the value of the sound sensor every 1s.

Note: If the battery box is connected to the DC interface, the value of the sound sensor module is normally around 0. If the USB port is used to supply power, the value of the sound sensor module is normally around 300.