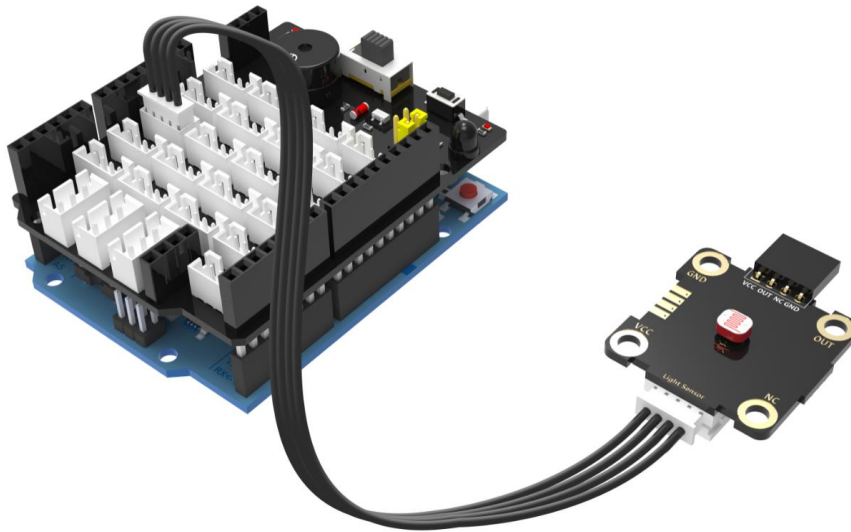**Experimental content:** Read the external light intensity value and print it out through the serial port.

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, IR controller *1, Photosensitive sensor module *1, 4pin cable(PH2.0) *1.

Experimental wiring:

The photosensitive sensor module is connected to the interface of the sensor expansion board with silk screen (GND, A1, A2, 5V), OUT: A2.
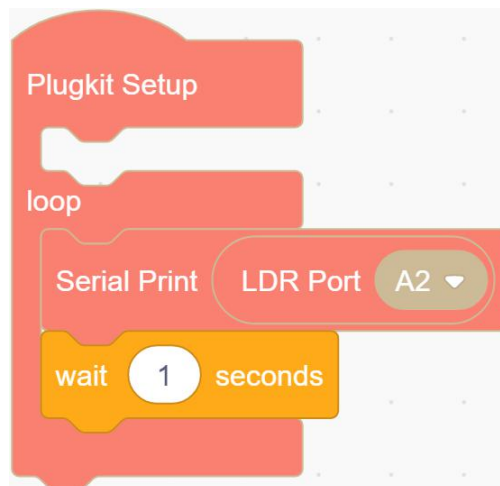
Experimental steps:

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

2.Put Select LDR Port block port to A2 and put it into Serial Print block.

3.Add the block combination of step 2 and the "wait 1 seconds" block together and put them in the loop block.

4.Compiling and uploading programs.

Experimental phenomena: The function realized by this program is that the serial port prints the data collected by the photosensitive sensor every 1s.

Open the serial port debugging assistant, select the baud rate 115200, and open the serial port. You can see that the photosensitive value detected by the photosensitive sensor module in a room is about 200. If we cover the photosensitive sensor with our hands, the light sensitivity value is around 900. As shown below.