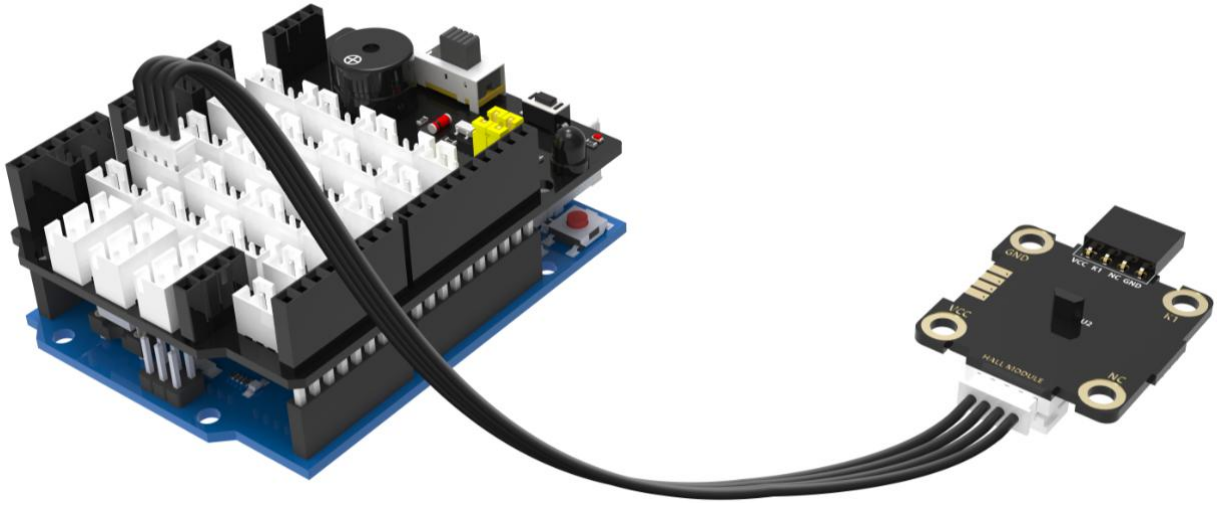
Experimental content: Check whether there is a magnet around and print the intensity of magnet by the serial port.

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

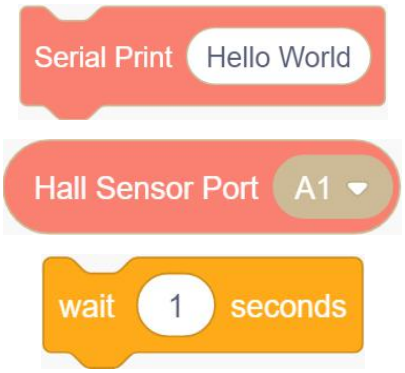
Experimental wiring:



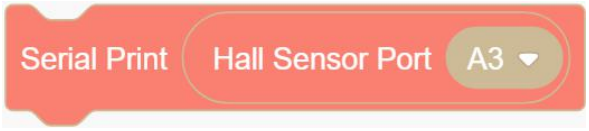
The hall sensor module is connected to the interface of the sensor expansion board with silk screen (GND, A2, A3, 5V), K1: A3.

Experimental steps:

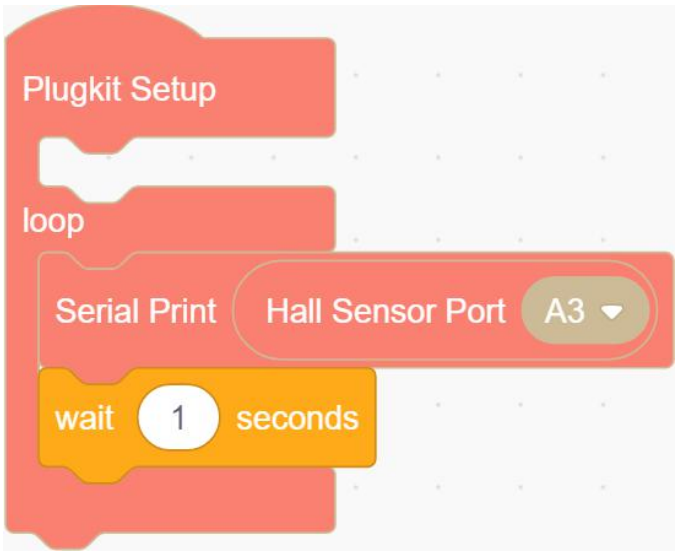
1.Select the following blocks in the [Plugkit], [Control].



2.Modify the port of the Hall sensor block to A3 and put it in the input item of the block printed by the serial port.



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 serial port print Hall sensor data every 1s.

Open the serial port debugging assistant, select 115200 baud rate, and open the serial port to observe. When the magnetic field is close, Hall sensor will be turned on and outputs 0; when the magnetic field is away, Hall sensor will be turned off and outputs 1023.