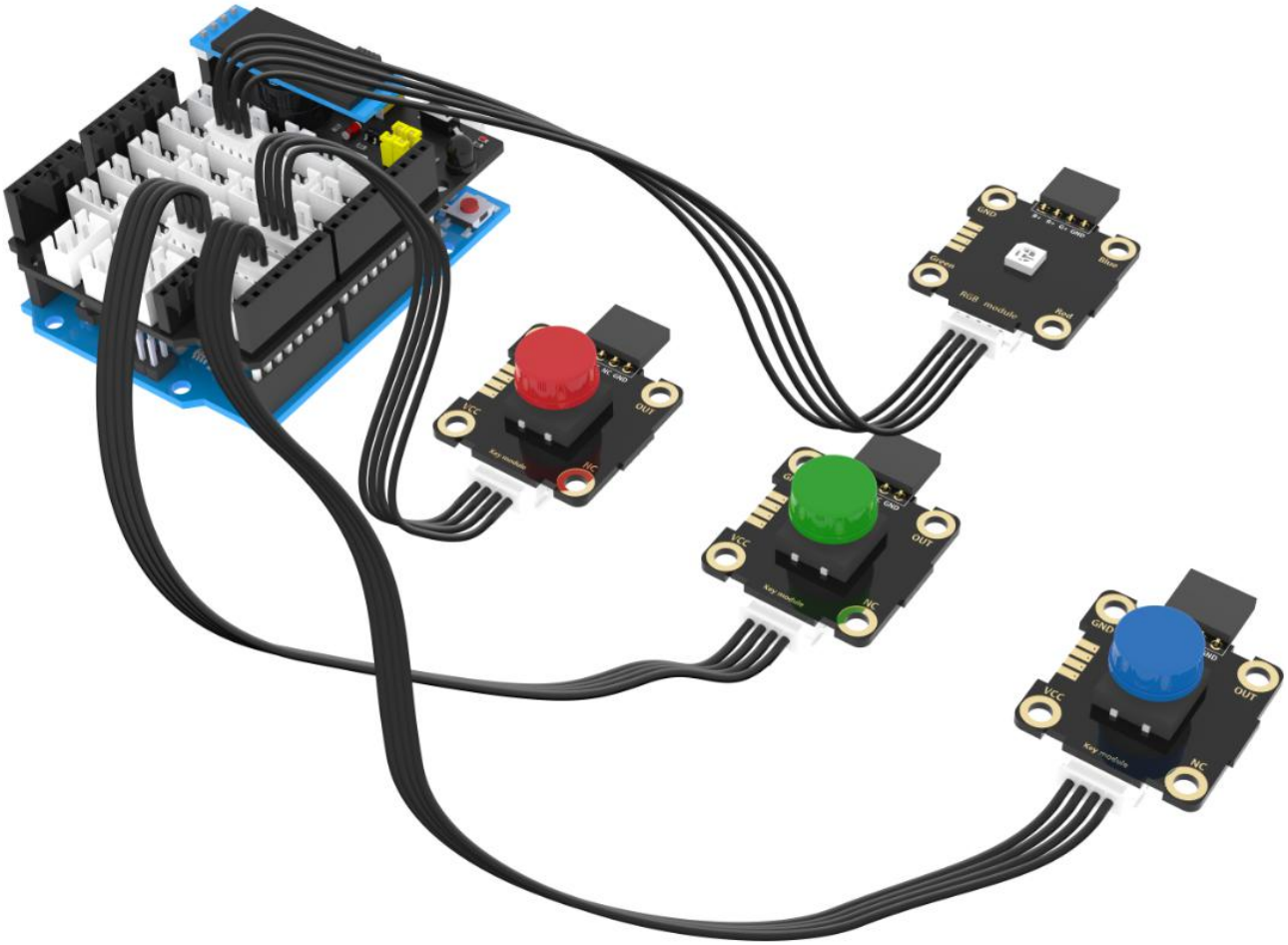
Experimental content: Determine which button was pressed first, the RGB light module will light up the corresponding color of the light, and the buzzer sounds.

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, 4pin cable(PH2.0) *4, Red button module *1, Green button module *1, Blue button module *1,RGB light module.

Experimental wiring:



The red button module is wired according to the previous experiment.

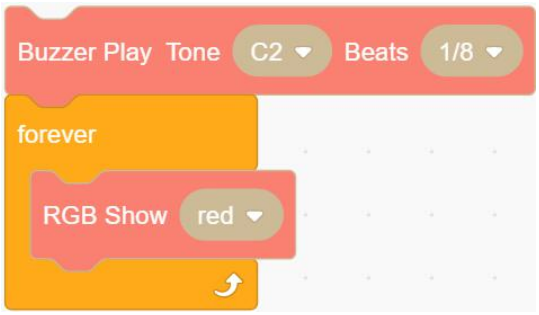
The green button module is connected to the interface of the Plugkit sensor expansion board with silk screen (GND, 4, ~ 3, 5V), OUT: ~ 3.

The blue button module is connected to the interface of the Plugkit sensor expansion board with silk screen (GND, ~ 3, 2, 5V), OUT: 2.

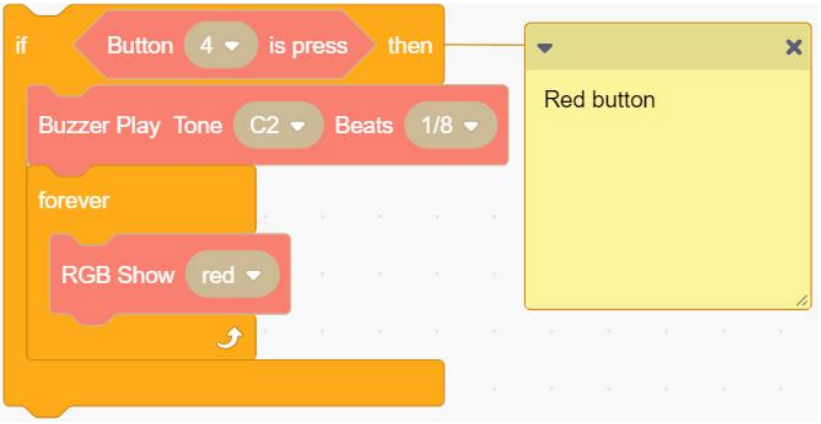
Experimental steps:

1. Select the following building blocks in the [Plugkit] and [Control].

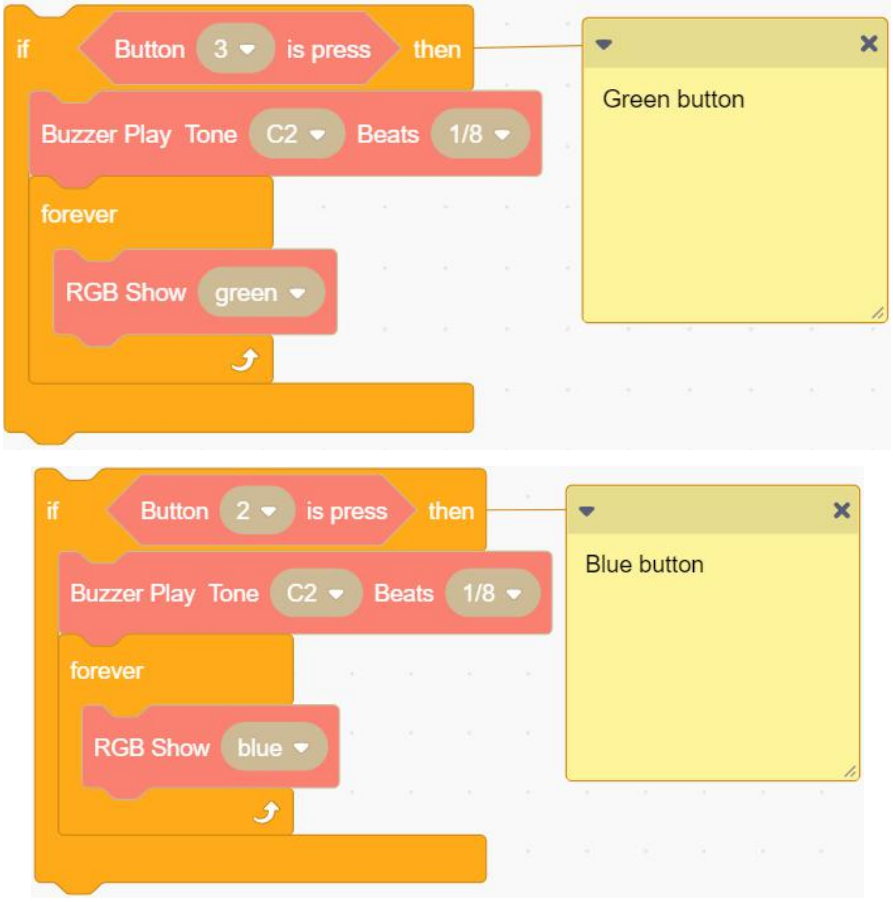
2. Put the RGB show red block into forever block, and Add them to the Buzzer Play Tone block.



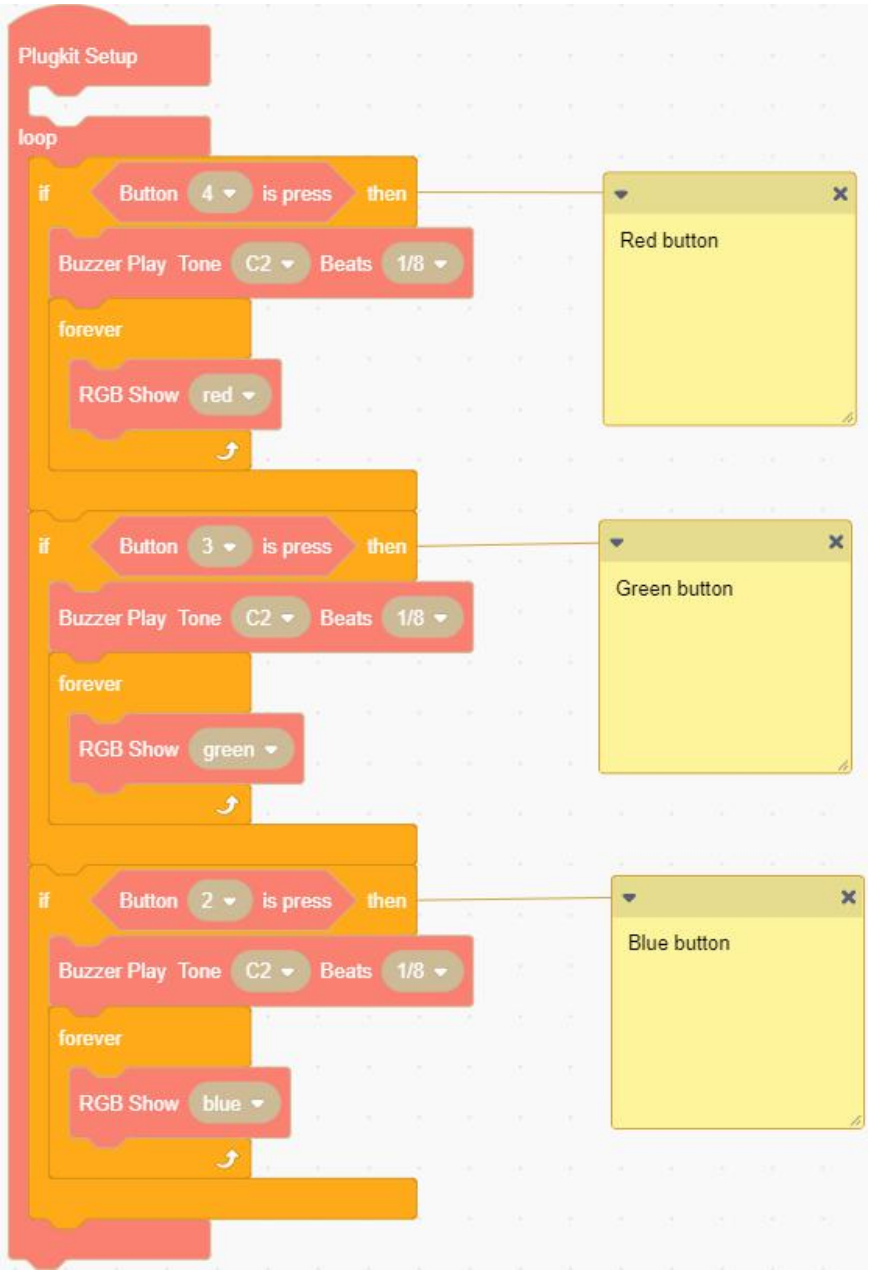
3. In this experiment, we need to use the red, green and blue buttons, they are connected to digital pins 4, 3 and 2 respectively. In combination with the experiment in the previous section, if the button module 4 is pressed, the block combination of step 2 will be executed.



4. Combine green button and blue button blocks in turn

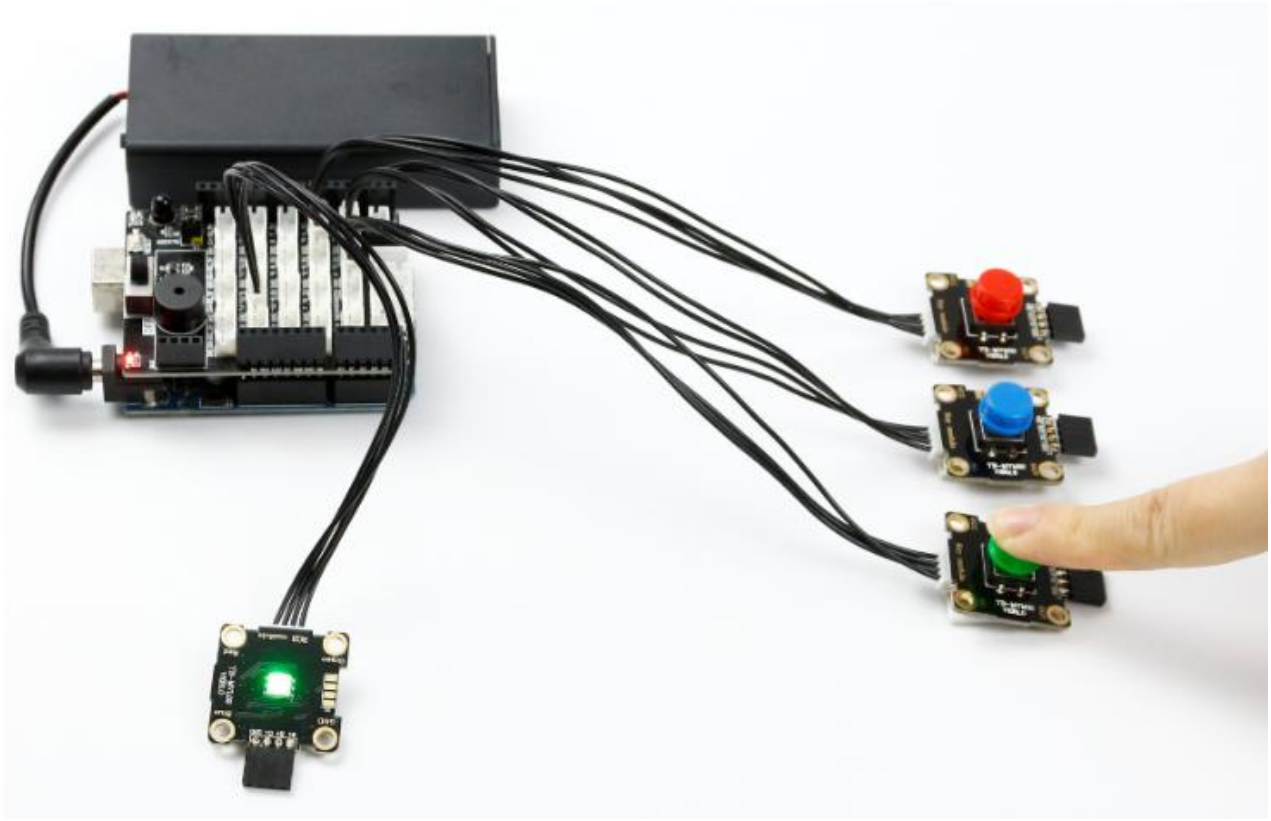


5. Then, add the three blocks together and put them into the loop block.



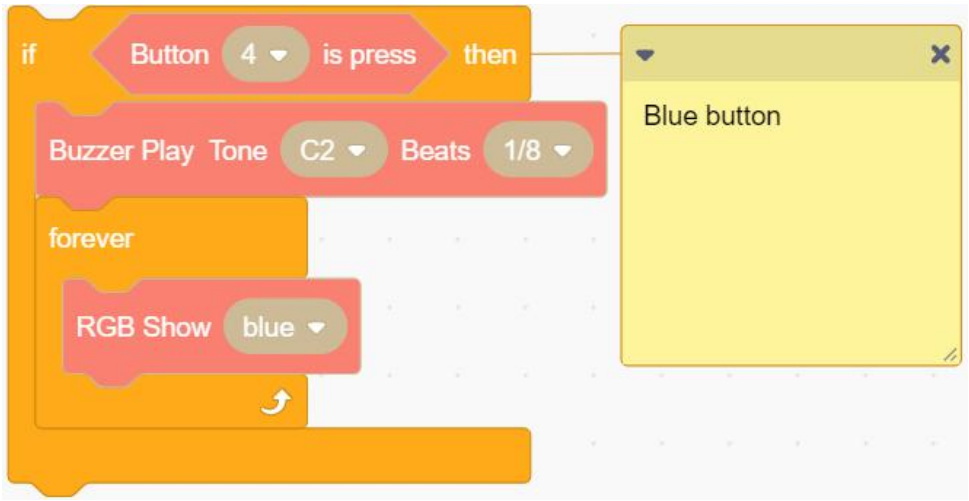
6. Compiling and uploading programs.

Experimental phenomena: The responder can realize three people to answer at the same time. When a key is pressed first, the buzzer will give a sound, and the corresponding color will be lit. Pressing reset key can start the experimental again.



Expand：

1. If there are more than three people competing, you can add the following block combination.



2. The buzzer module plays the tone. You can choose the tone or combine the good sounds by yourself