Case 31: The Drawing Machine

Contents

33.1. Purpose

Make a drawing machine.
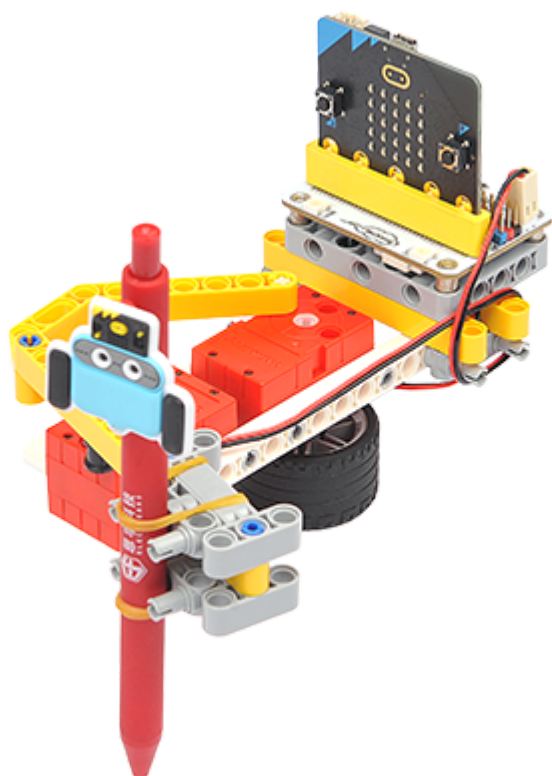
33.2. Link:

micro:bit Wonder Building Kit

33.3. Materials Required

2x
32278, 1

2x
40490, 3

1x
41239, 3

2x
14720, 86

4x
48989, 86

1x
32009, 3

1x
32184, 11

2x
6558, 7
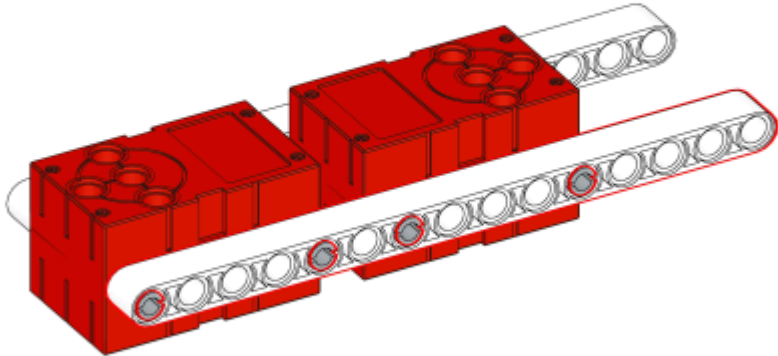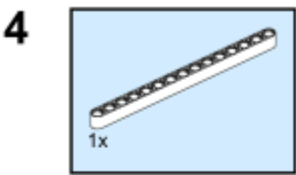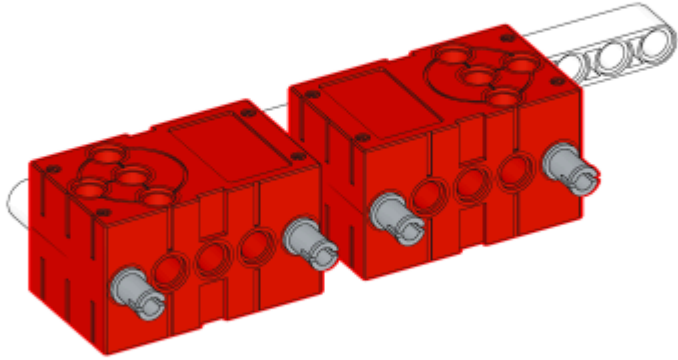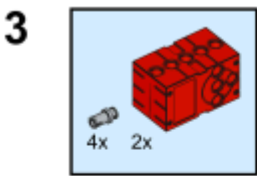
1x
3749, 2

2x
43093, 7

6x
2780, 11

1x
32062, 5

8x
32002, 86

1x

1x

2x
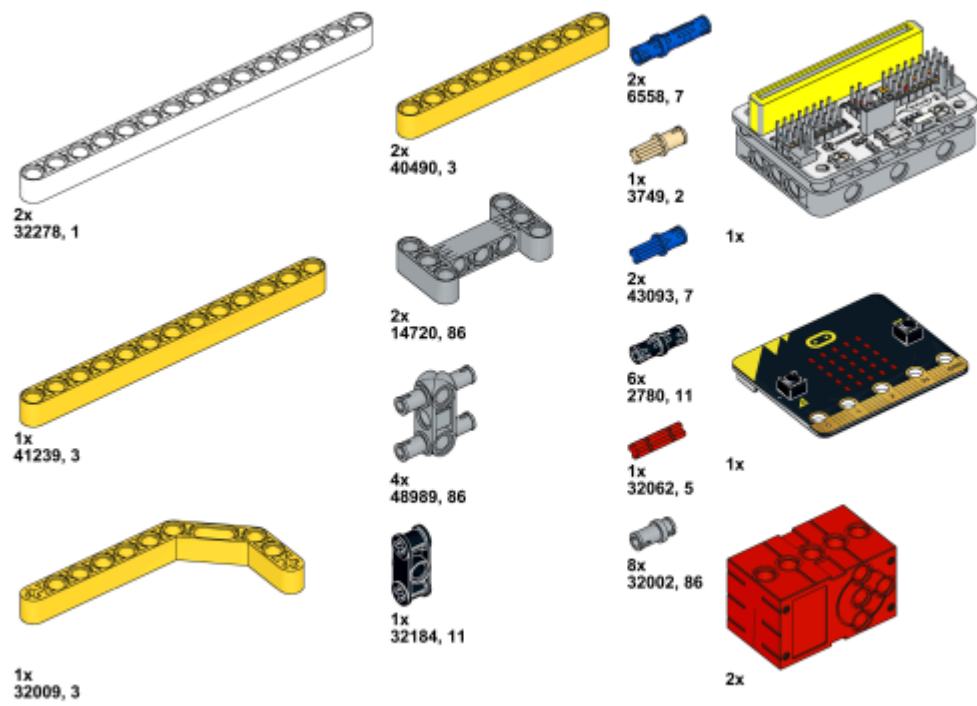
33.4. Bricks build-up

1

1x

2

4x

3

4

5

6

7

8

9

10

11
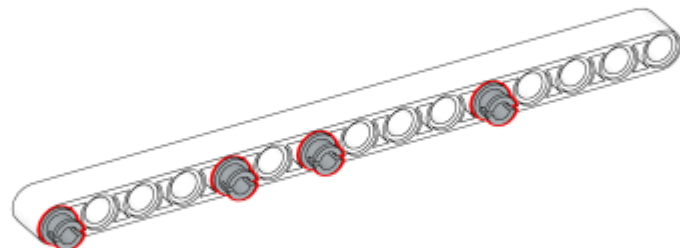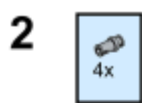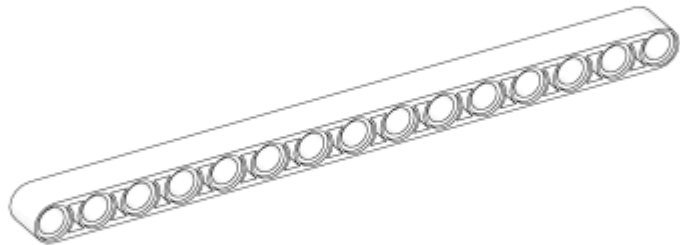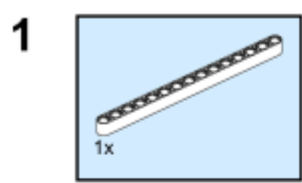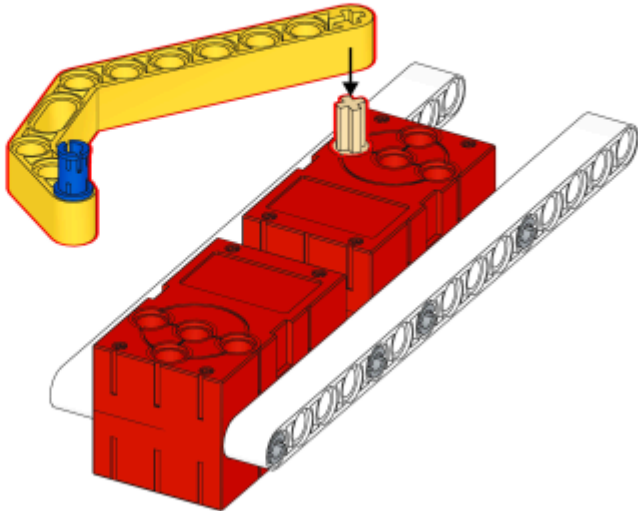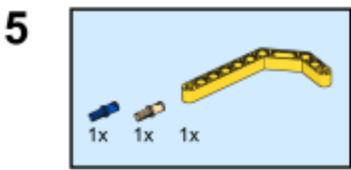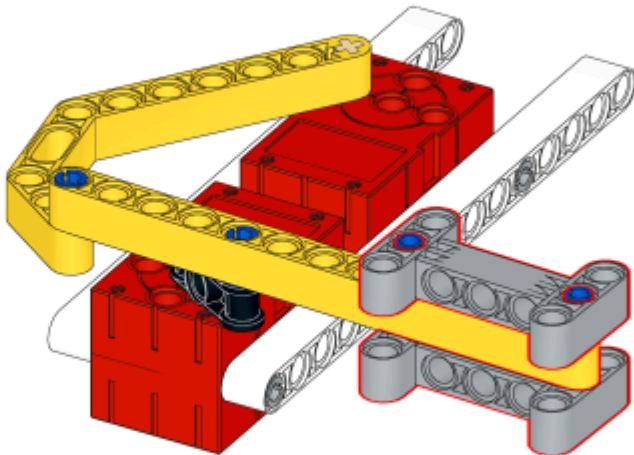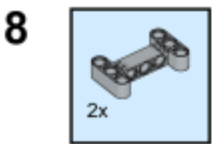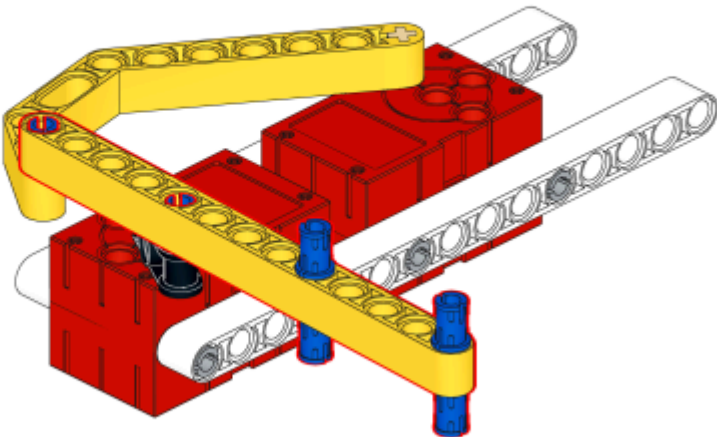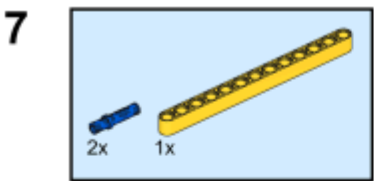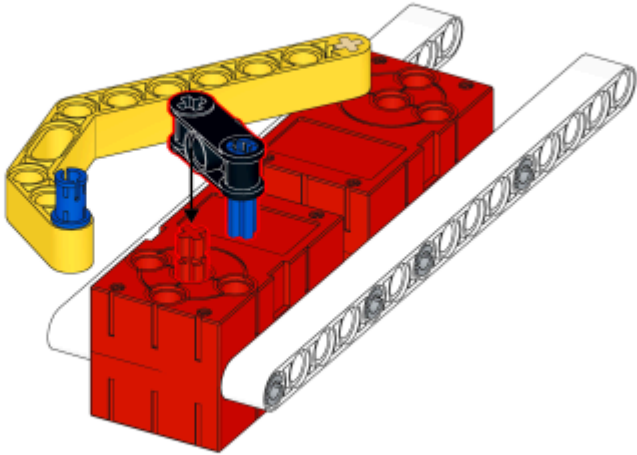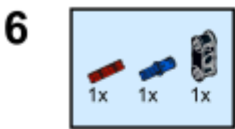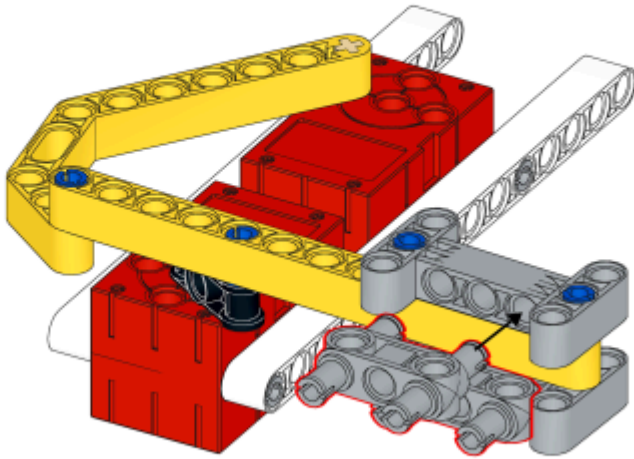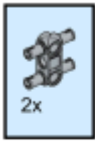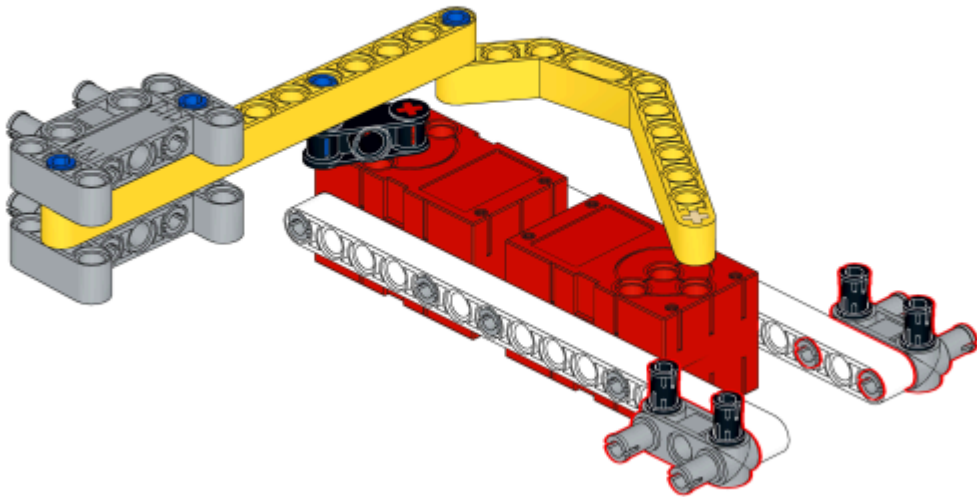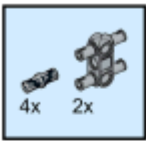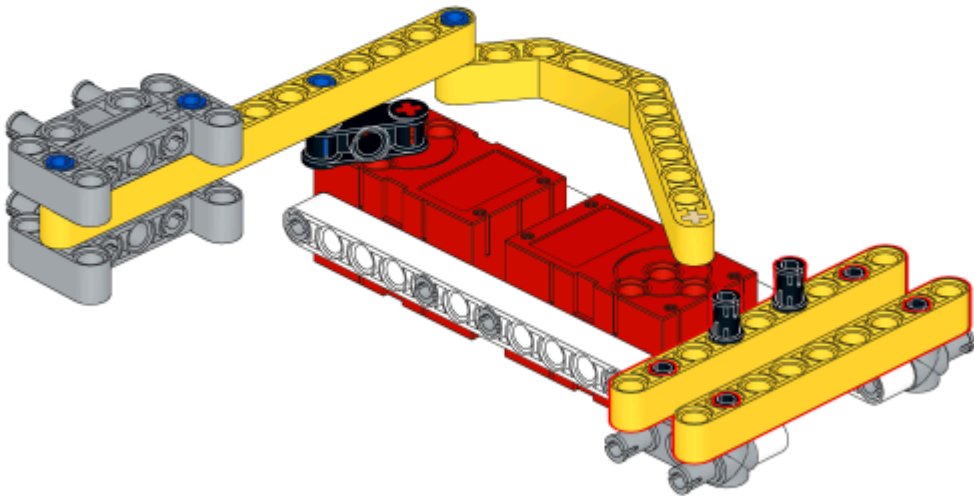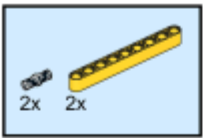
33.5. Hardware Connection

Connect two [motors](#) to M1 and M2 ports on [Wukong breakout board](#).

33.6. Software Platform

MakeCode

33.7. Coding

Add extensions

Click "Advanced" in the MakeCode to see more choices.

Search with Wukong in the dialogue box to download it.

Program

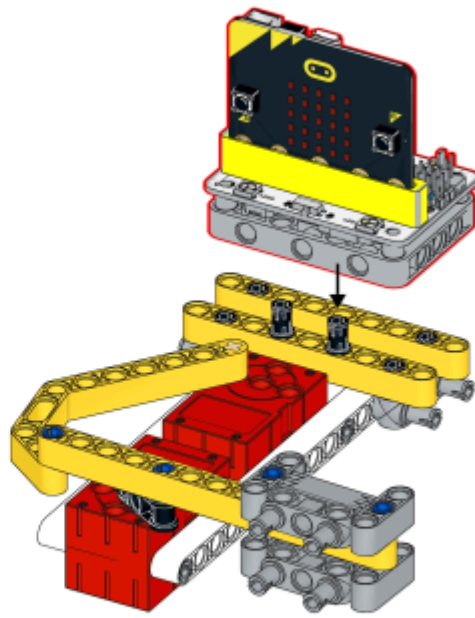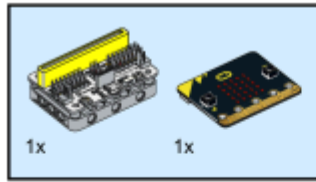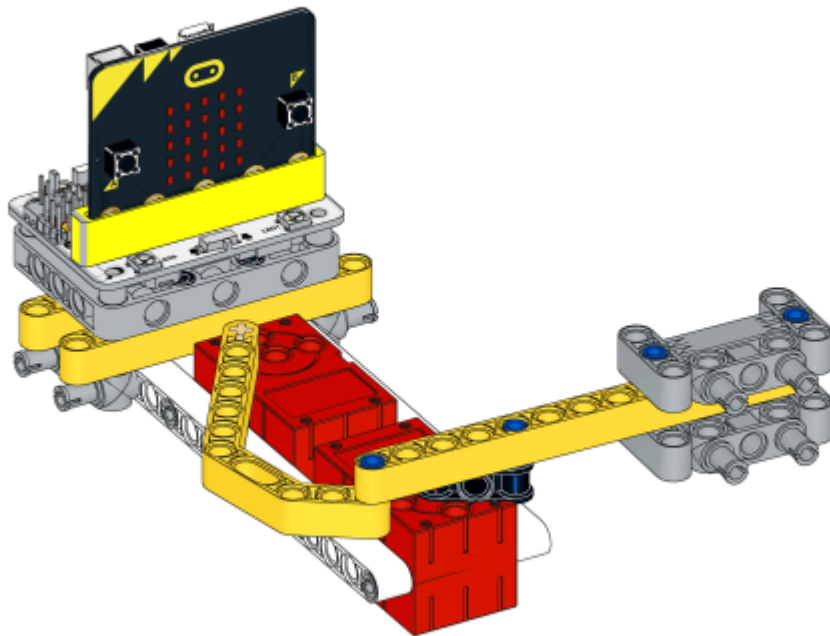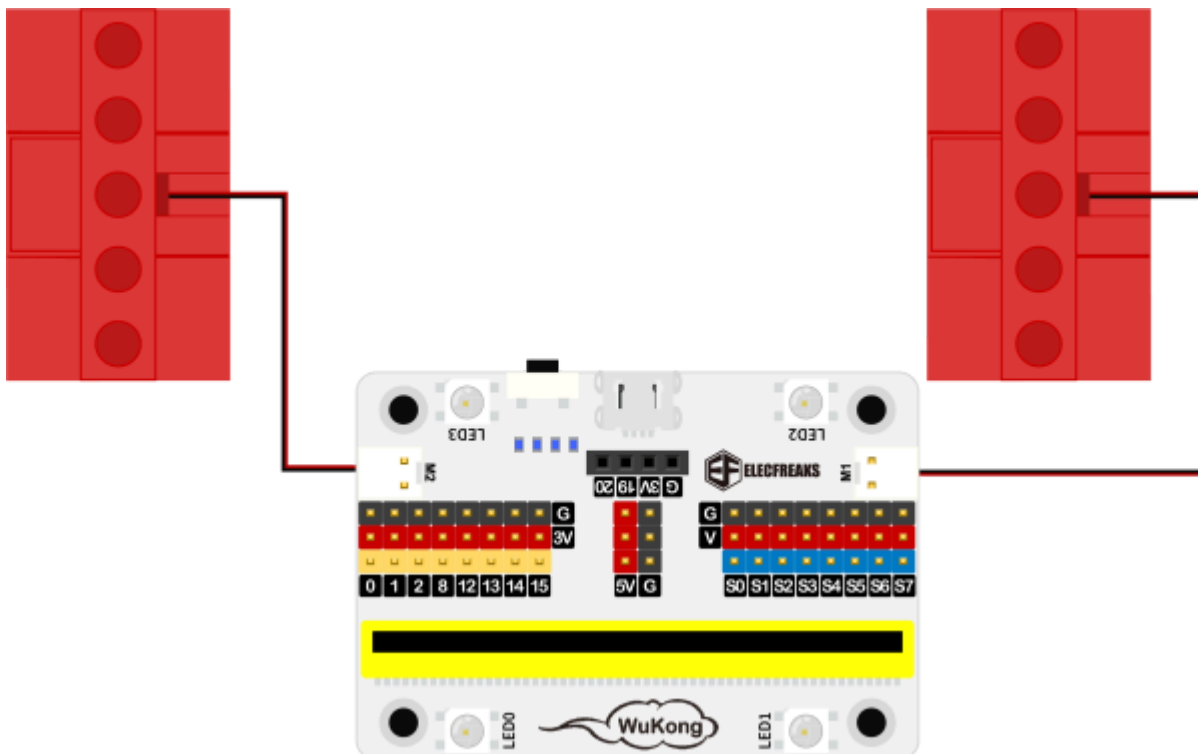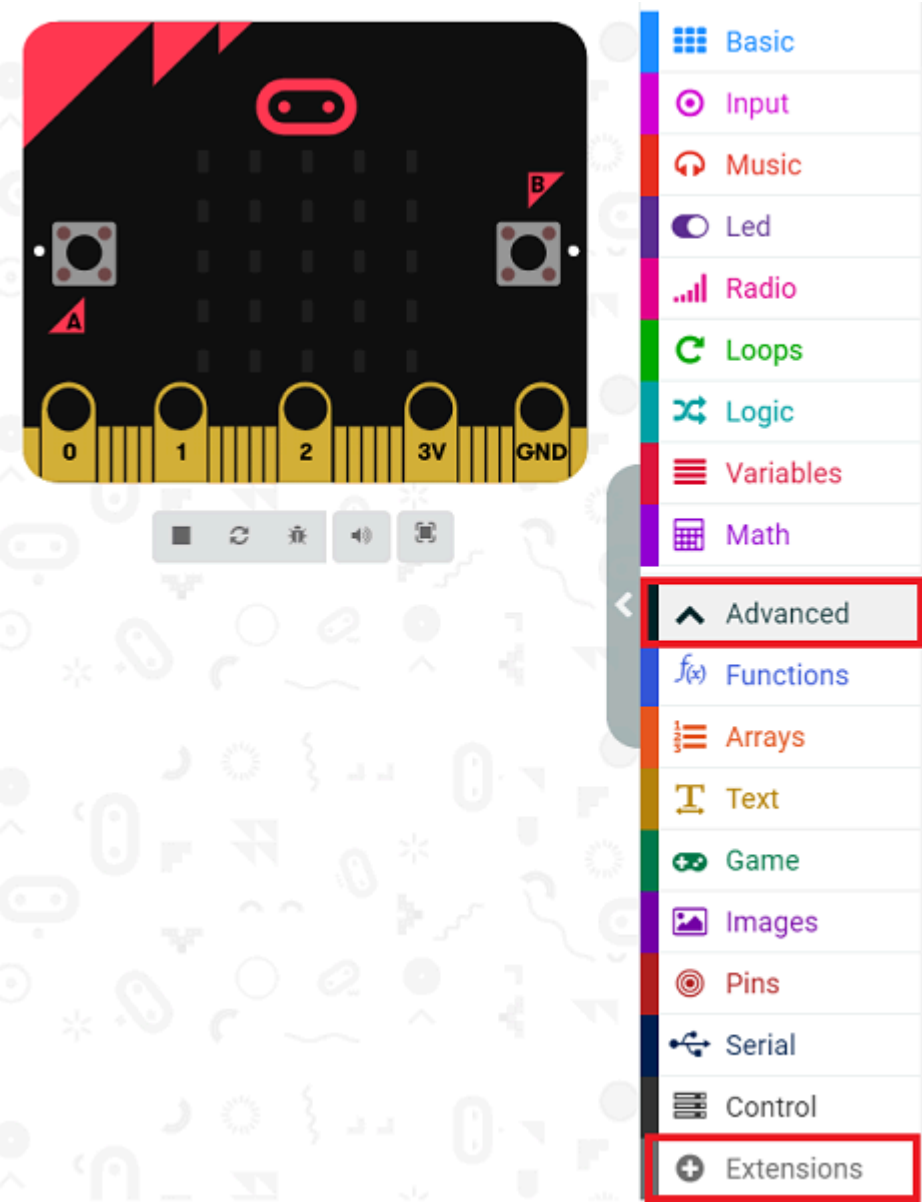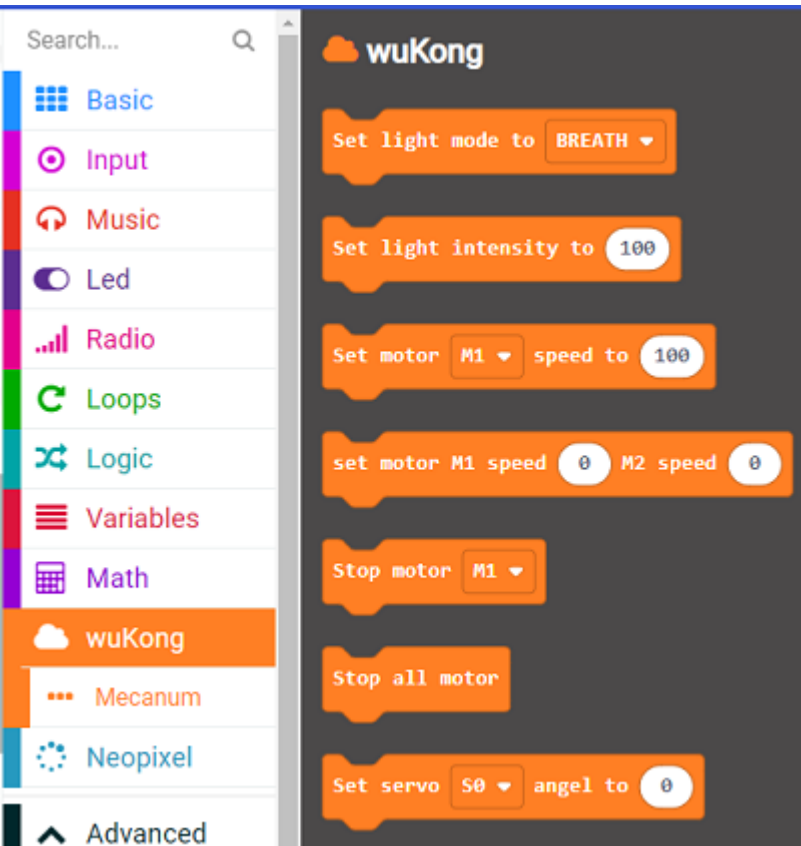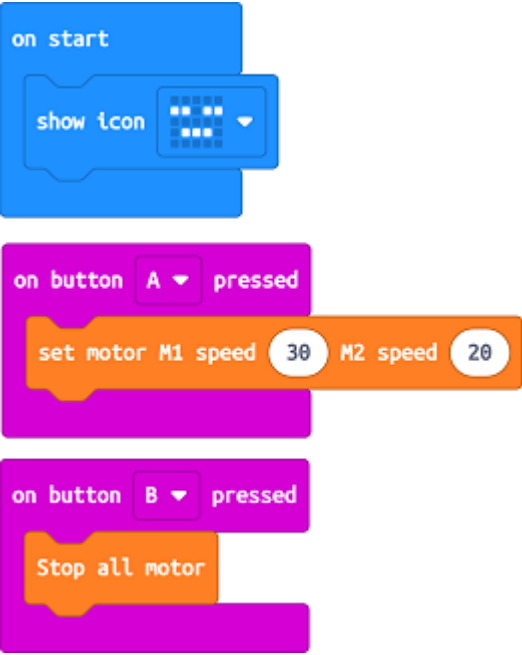Link:https://makecode.microbit.org/_KRcLTWaab2sk

Result

Use the leather band to fix the pen on the gray double bolt parts, the drawing machine is placed on a piece of white paper, when the button A is pressed, the drawing machine begins to draw. By adjusting the speed of the motor M1 and motor M2, you can draw different patterns; when the button B is pressed, the drawing machine stops.