

## Temperature control fan

### 1. Learning target

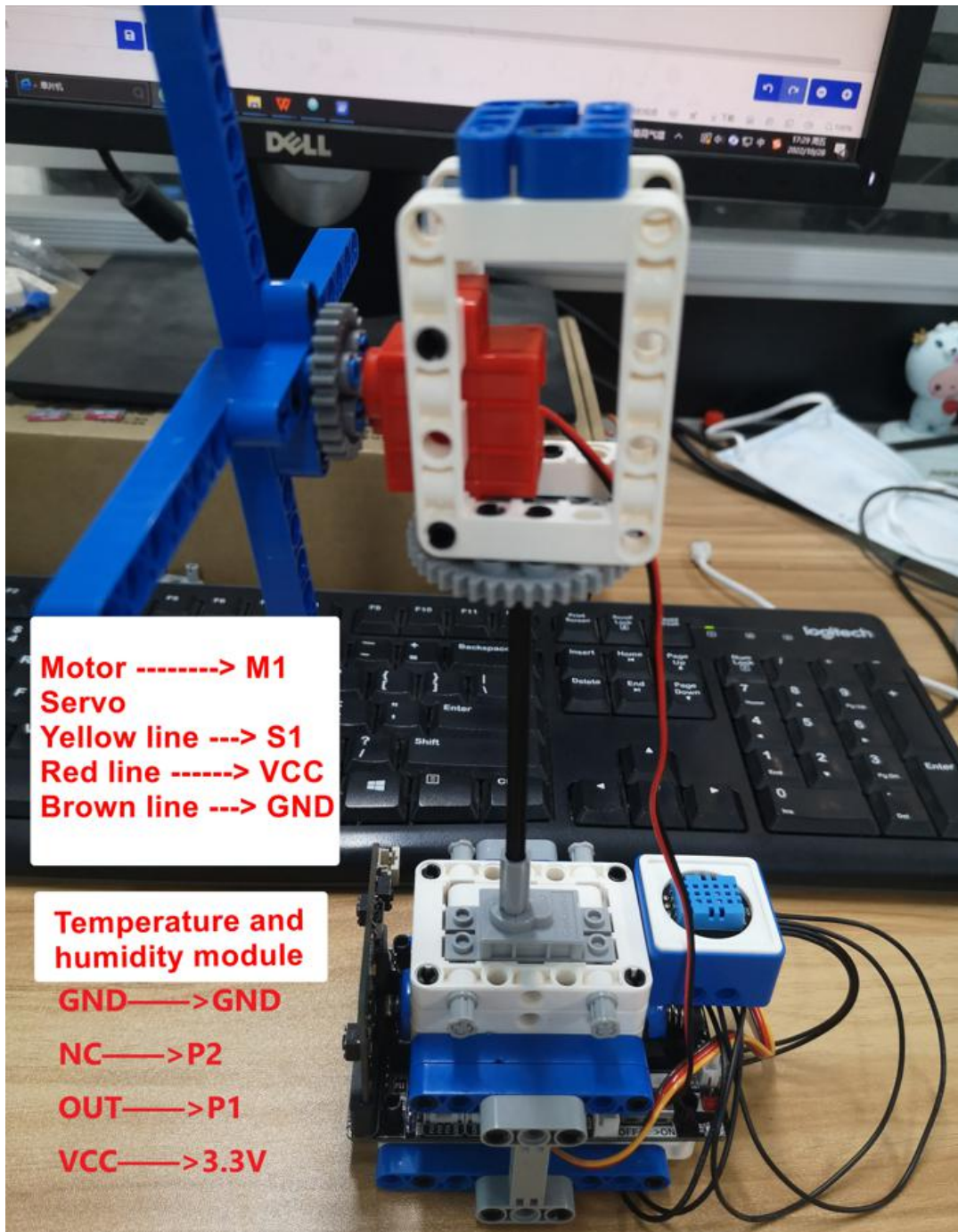
In this course, we will learn how to use Micro:bit and temperature and humidity sensor and key module to make a temperature control fan.

### 2. Preparation

Connect the module to Micro:bit board by expansion board, as shown below.

**Note: The building block parts used in this course needs to be purchased additionally.**

**Link:**<https://category.yahboom.net/products/buildingbit-super-kit>



### 3. Programming method

**Mode 1 online programming:** First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive:

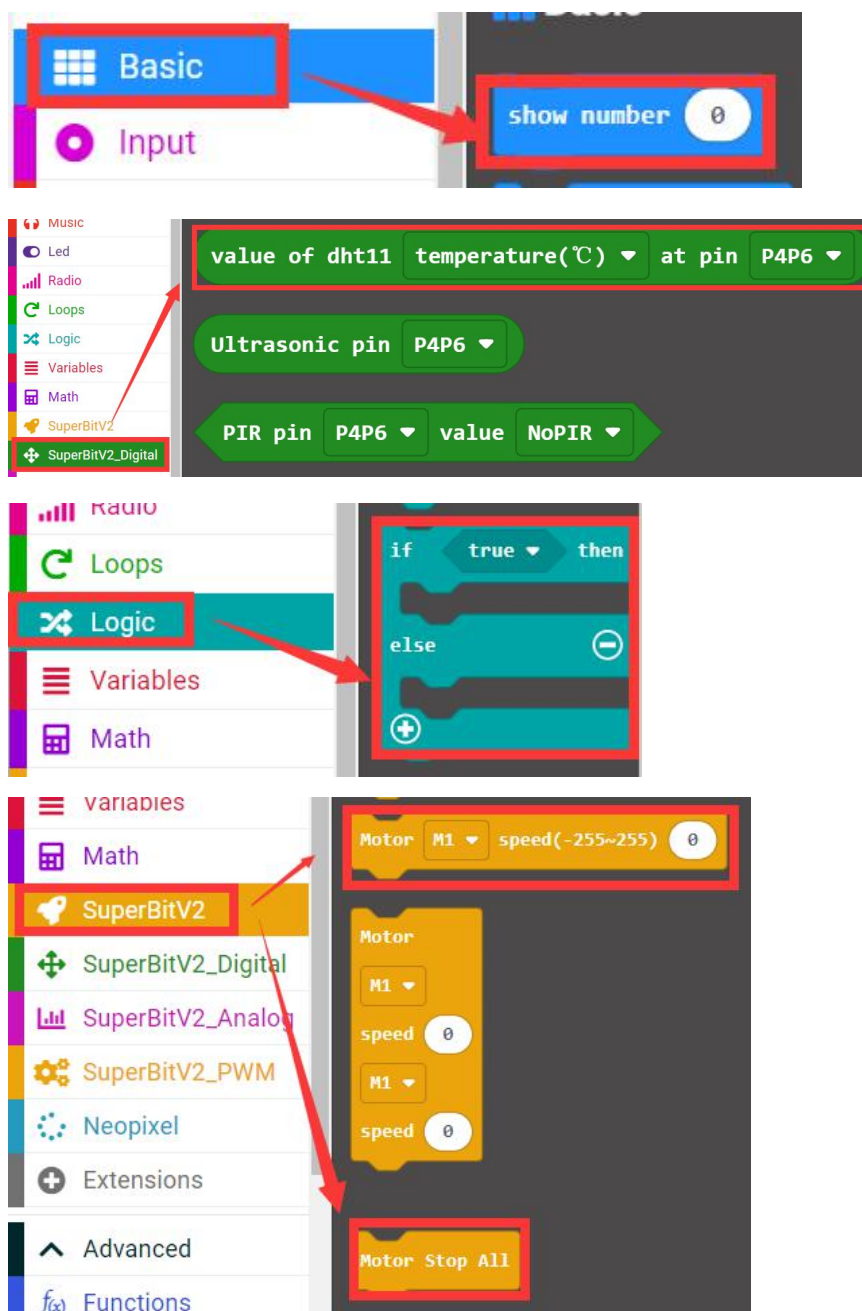
<http://microbit.org/> to enter the programming interface. Add the Yahboom package

<https://github.com/YahboomTechnology/SuperBitLibV2> to program.

**Mode 2 offline programming:** We need to open the offline programming software. After the installation is complete, enter the programming interface, click **【New Project】**, add Yahboom package: <https://github.com/YahboomTechnology/SuperBitLibV2>, you can start programming.

### 4. Looking for blocks

The following is the location of the building blocks required for this programming.



### 5.Combine block

The summary program is shown below.



### 5. Phenomenon

After the program is downloaded successfully.

If you hold the temperature and humidity module in your hand and keep it warm, when the temperature rises to more than 31°C, Micro:bit dot matrix displays 1, and the fan starts to shake its head. If the temperature drops below 30°C, Micro:bit dot matrix displays 0, and the fan stops.