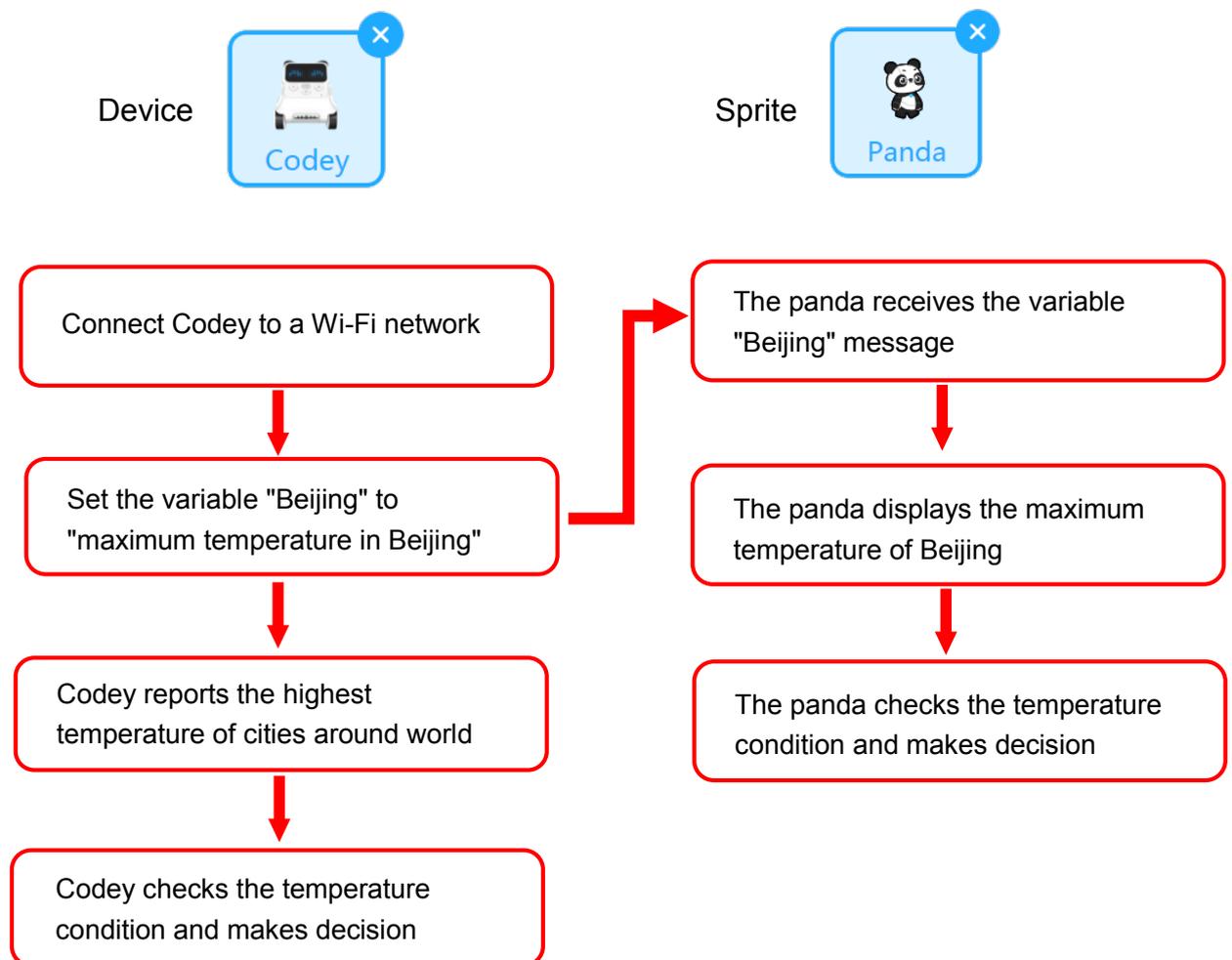


Lesson 2 Codey Rocky & Weather Reporter Panda

When Codey starts up, it connects to a Wi-Fi network and starts accessing the real-time maximum temperature of a specified city. Meanwhile, Codey sends the temperature data to the sprite Panda. The sprite panda repeatedly checks the temperature condition and makes decisions.

1. The Weather Forecasting Process



2. Connect Codey to a Wi-Fi network

Select a Wi-Fi network name and enter the password. If Codey is successfully connected to the Wi-Fi, it will display the first image as shown in the picture,

otherwise it will display the second image.

```
when Codey starts up
  connect to Wi-Fi Wi-Fi hotspots not found password 12345678
  forever
    if Wi-Fi connected? then
      show image [Wi-Fi icon] for 1 secs
    else
      show image [Wi-Fi icon]
```

3. Codey reports the maximum temperature of cities around the world

If Codey is successfully connected to a Wi-Fi network, it will repeatedly display the maximum temperature of some major cities around the world, such as Beijing, Shanghai and Tokyo.

```
when Codey starts up
  connect to Wi-Fi Wi-Fi hotspots not found password 12345678
  forever
    if Wi-Fi connected? then
      show image [Wi-Fi icon] for 1 secs
      show join Beijing maximum temperature °C in Beijing, Beijing, CN until scroll done
      show join Shanghai maximum temperature °C in Shanghai, Shanghai, CN until scroll done
      show join Tokyo maximum temperature °C in Tokyo, Tokyo Prefecture, JP until scroll done
    else
      show image [Wi-Fi icon]
```

Connect to weather stations via Wi-Fi to access the real-time maximum temperature of some most popular cities around the world.

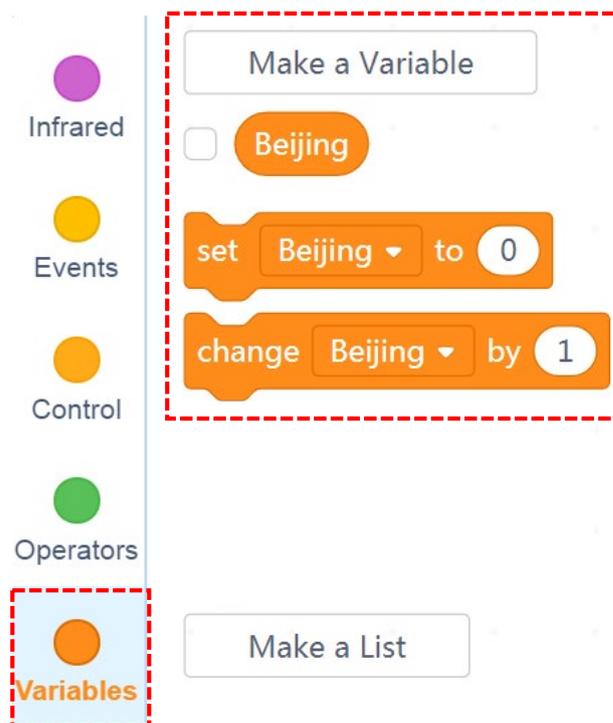
4. Codey Works with Sprite Panda

4.1 Codey checks the temperature condition

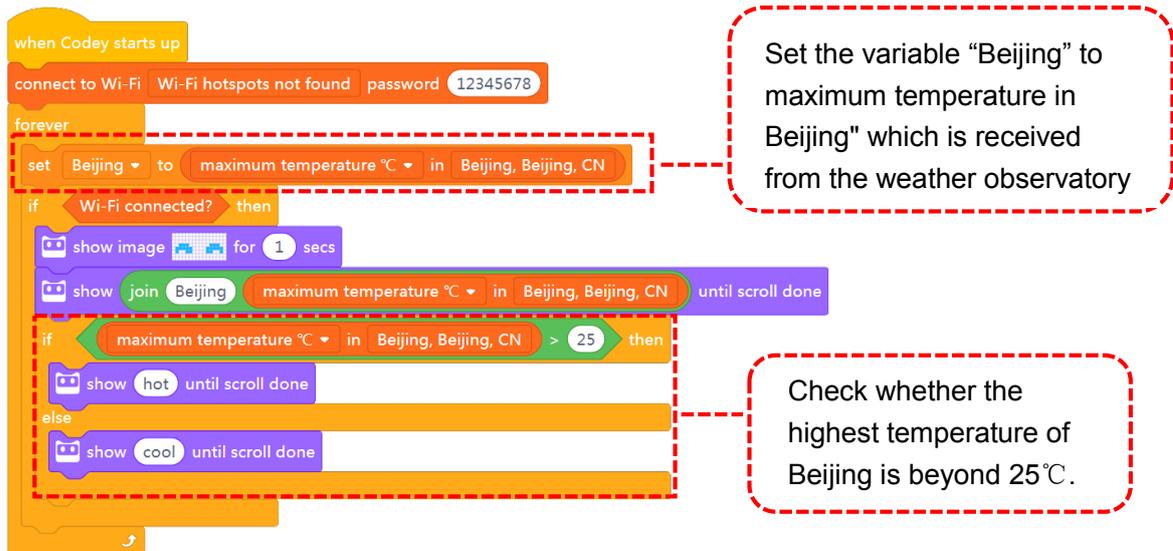
Create a new variable named "Beijing". The variable will report the maximum temperature of Beijing to the sprite Panda. If the highest temperature is beyond 25°C, Codey will display the word "hot" on its LED screen, otherwise it will show "cool".

Step1 Select **Variables** and click **Make a Variable**.

Step2 Enter "Beijing".



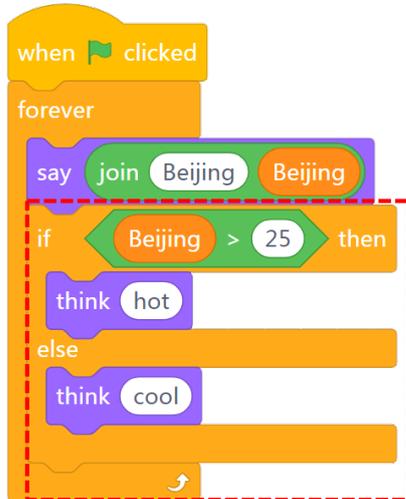
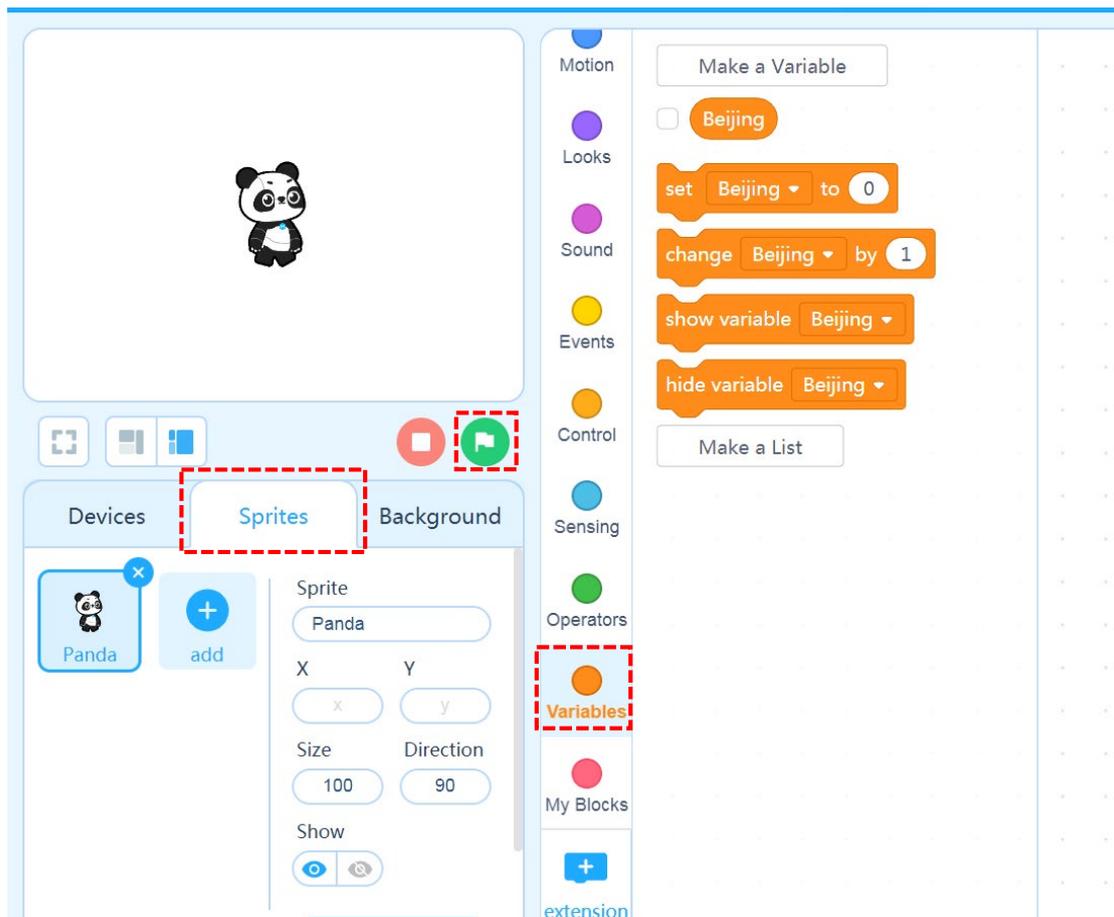
Step3 Put the following blocks together as shown. Define the variable and check the temperature condition.



4.2. Weather Reporter Panda

The sprite panda receives the variable sent by Codey and displays the maximum temperature of Beijing in real time. Meanwhile, Codey checks the temperature condition to decide what to display on its LED screen: when the highest temperature is beyond 25°C, it will display "hot", otherwise it will display "cool".

Step1 Select **Sprites** and click **Variables**. Drag the following blocks to the Scripts area and join them together as shown.



The sprite panda repeatedly checks if the maximum temperature in Beijing exceeds 25°C.

Step2 Select **Devices**, click **Connect**, and click **Upload**. See if Codey Rocky can display the highest temperature of cities around the world as intended.

Step3 Click the  icon to see if the sprite panda displays the maximum temperature of Beijing as programmed.