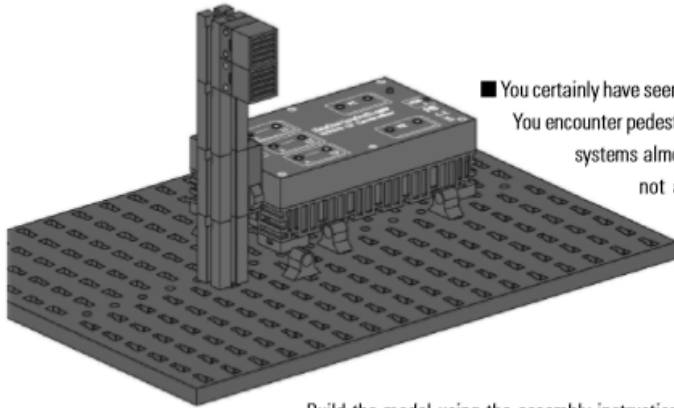


紅綠燈簡介

Task介紹



■ You certainly have seen various models of traffic lights. You encounter pedestrian lights or entire intersection systems almost daily so that the principle is not anything new for you. Stated simply, lights are turned on and off in a certain sequence.

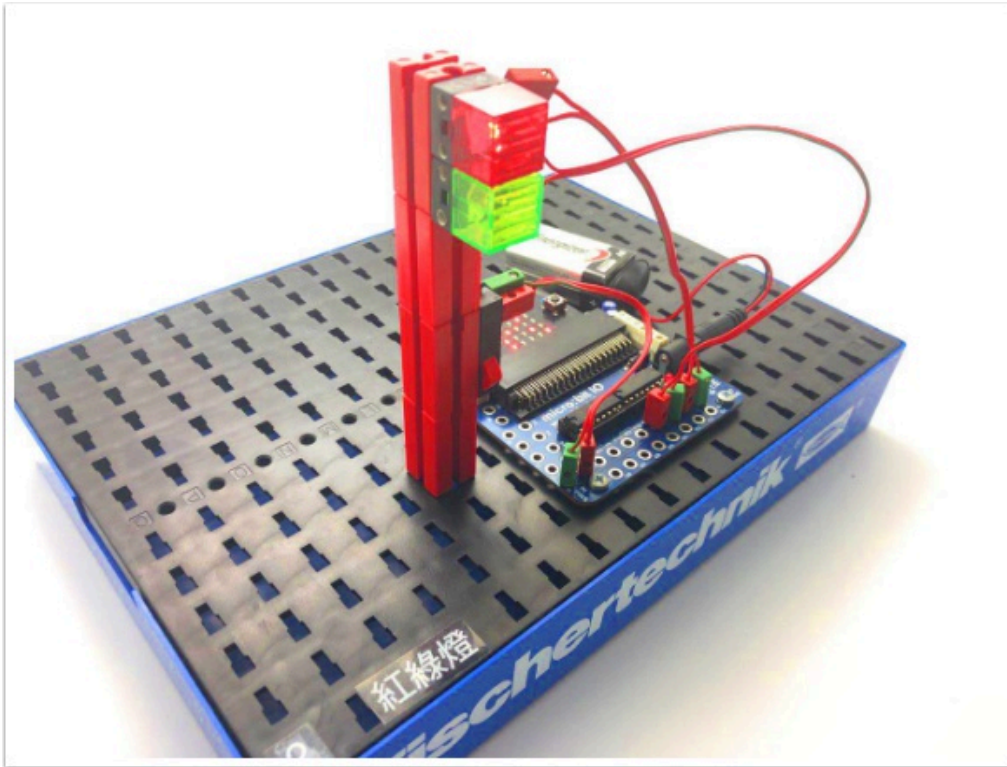
Build the model using the assembly instructions and then connect the cables according to the circuit diagram.

Task 1

Program a pedestrian light, which is switched with a push-button switch. At first, the light is red. When the push-button switch is pressed, the red phase is to continue for five seconds. This is to be replaced by a green phase, which lasts for 10 seconds. After this, the light returns to red.



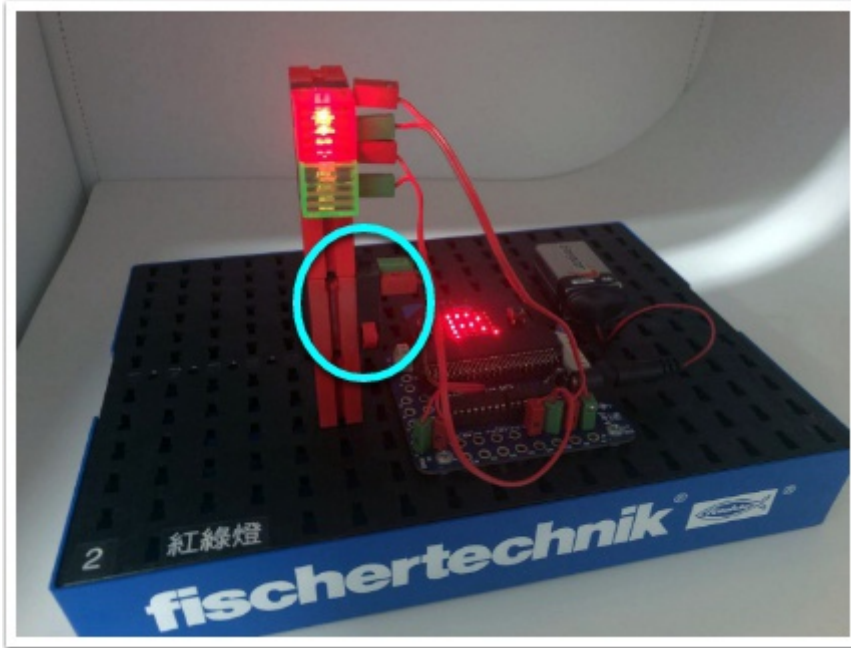
內容介紹



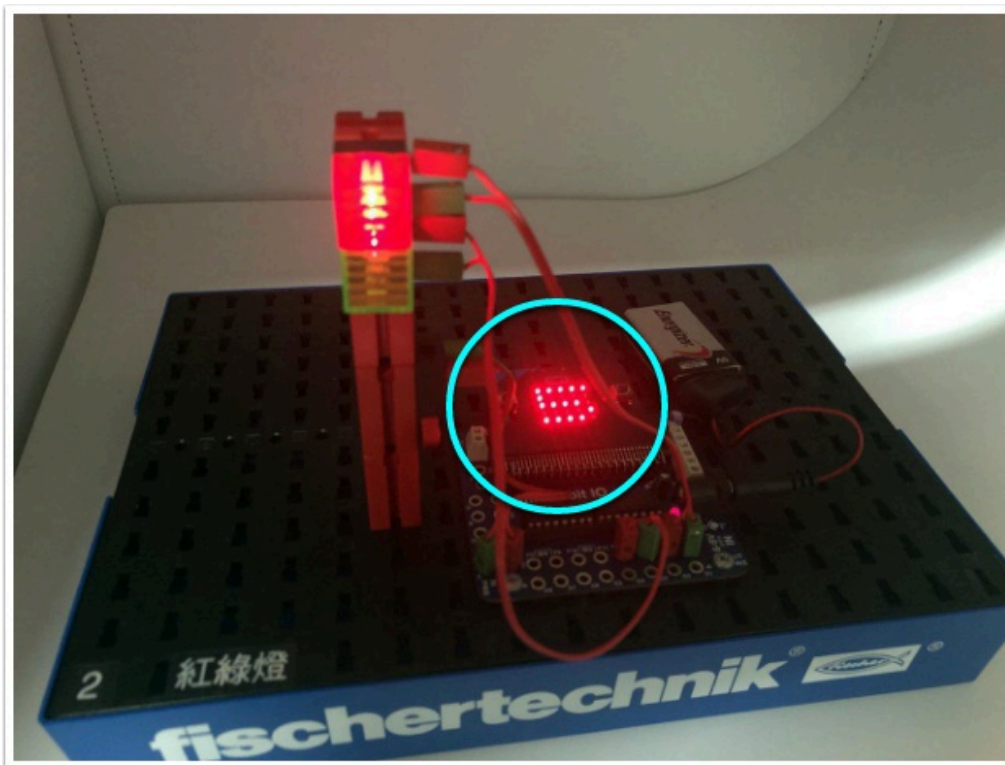
燈柱旁有一個按鈕，行人需要過馬路時，按下按鈕，接著micro:bit 便會倒數10秒，提醒行人10秒後便會轉燈。

經過10秒後，紅燈便轉成綠燈，隨即倒數12秒，提醒行人有12秒時間過馬路，而倒數剩餘3秒綠燈便會閃動，提醒行人盡快過馬路。

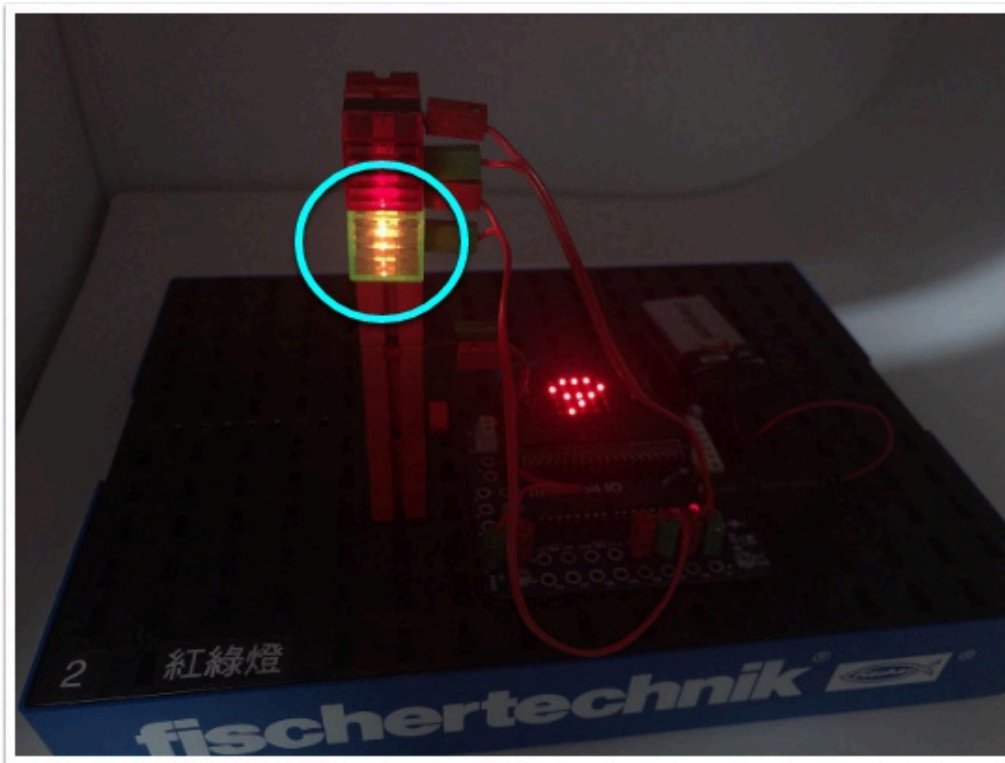
經過12秒後，綠燈會變回紅燈，等待行人按下按鈕。



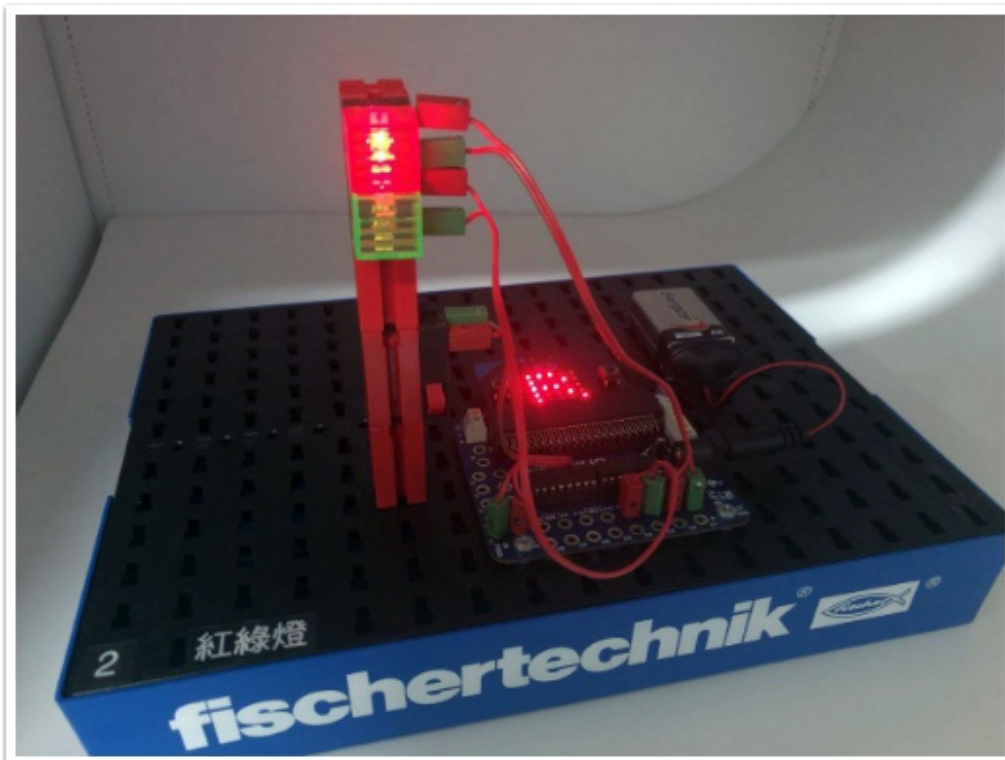
我們用了Switch button 取代button A，按下button 才會觸發編程。



倒數時會顯示倒數時間，提醒行人。



經過10秒後，關閉紅燈，開啟綠燈，隨即倒數。



當轉回紅燈時，程式回到初始，等待行人按下按鈕

示範影片