

2023-2024 Quality Education Fund Thematic Network - Tertiary Institutes

STEAM Education with Self-directed and Progressive Learning of Engineering Design Process for Problem-solving

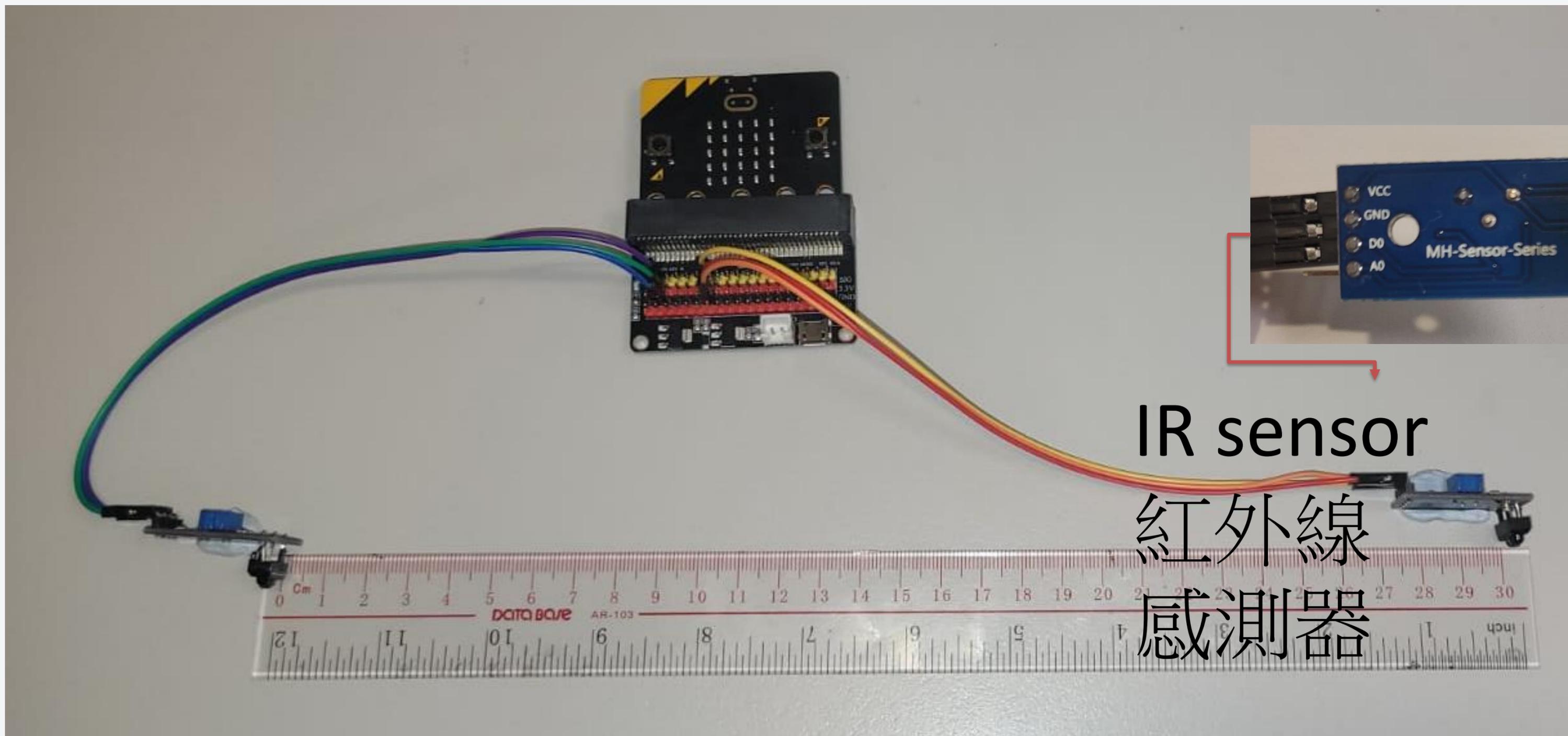
透過STEAM教育自主及循序漸進學習以工程設計流程解難

Speed test速度測試

保良局莊啓程第二小學

PLK Vicwood K T Chong No.2 Primary School

實驗材料



IR sensor

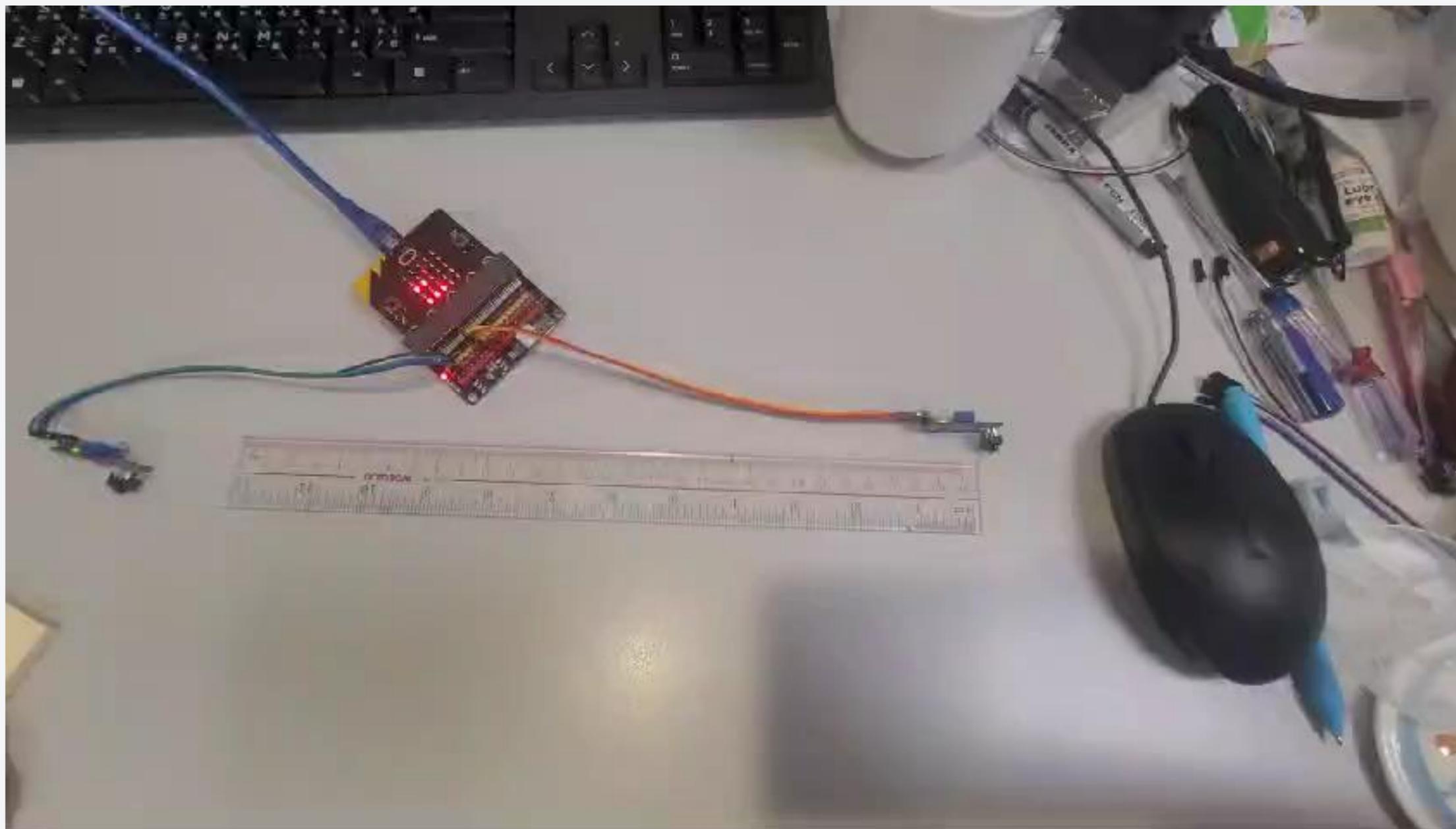
紅外線
感測器

編碼

```
forever
  if analog read pin P0 < 40 then
    set start to running time (ms)
  else if analog read pin P1 < 40 then
    set end to running time (ms)
  set ms to end - start
  set s to ms / 1000
  show number s

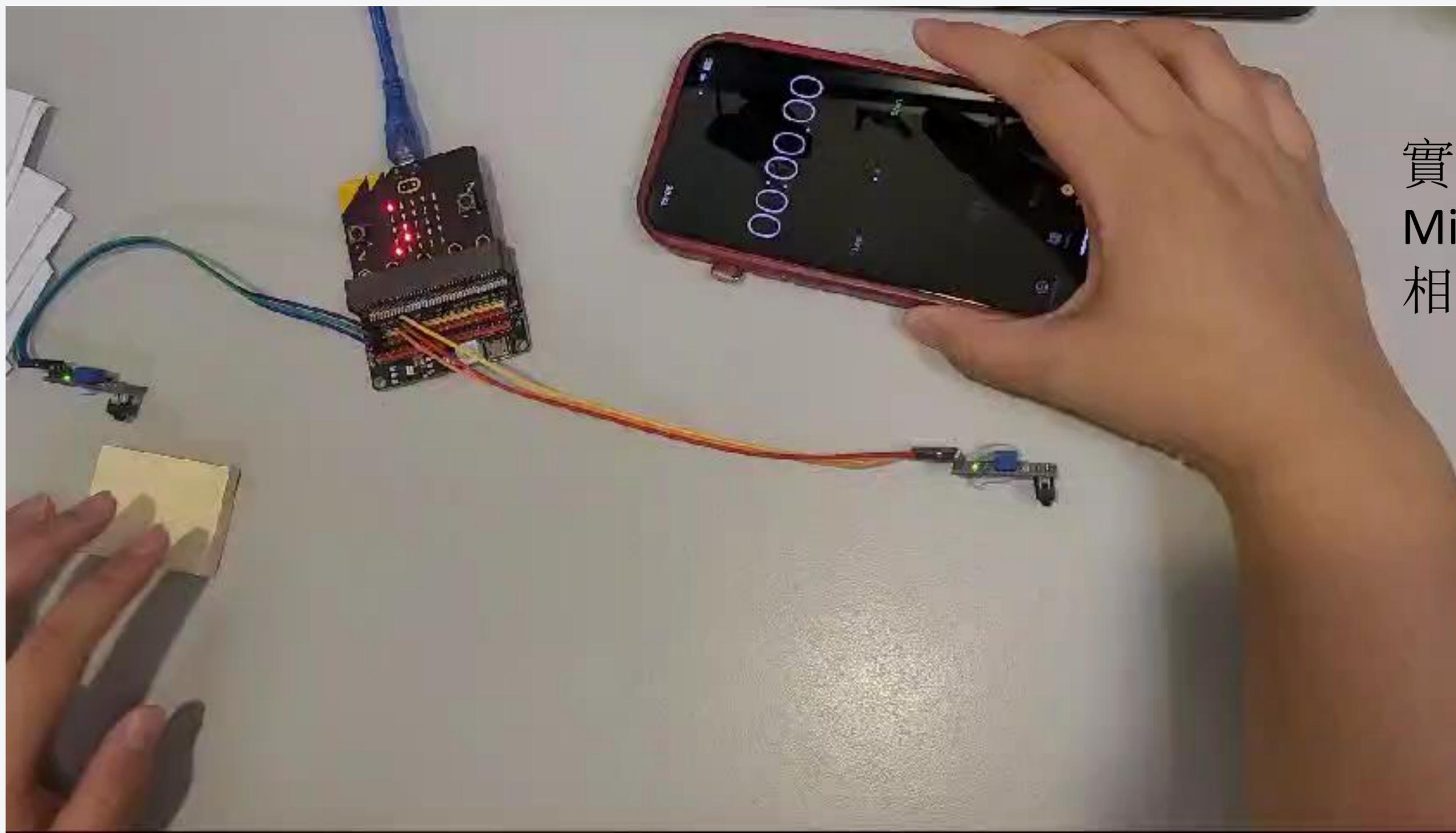
on button A pressed
  reset
```

影片



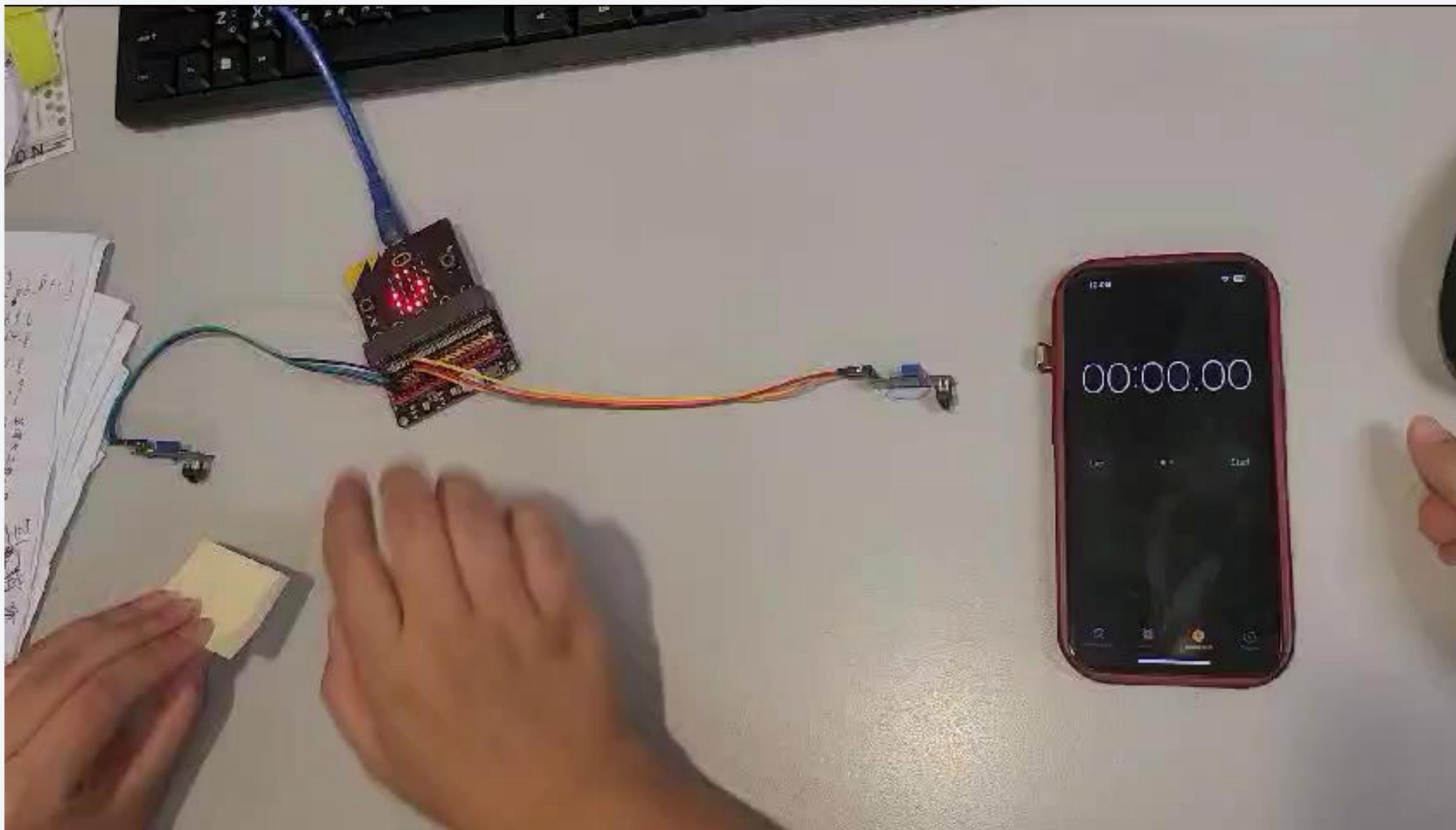
實際讀數:4.56s
Microbit 讀數:3.86s
相差:15%

影片



實際讀數:2.42s
Microbit 讀數:2.08s
相差: 14%

影片



實際讀數:0.40s
Microbit 讀數:0.58s
相差: 45%