

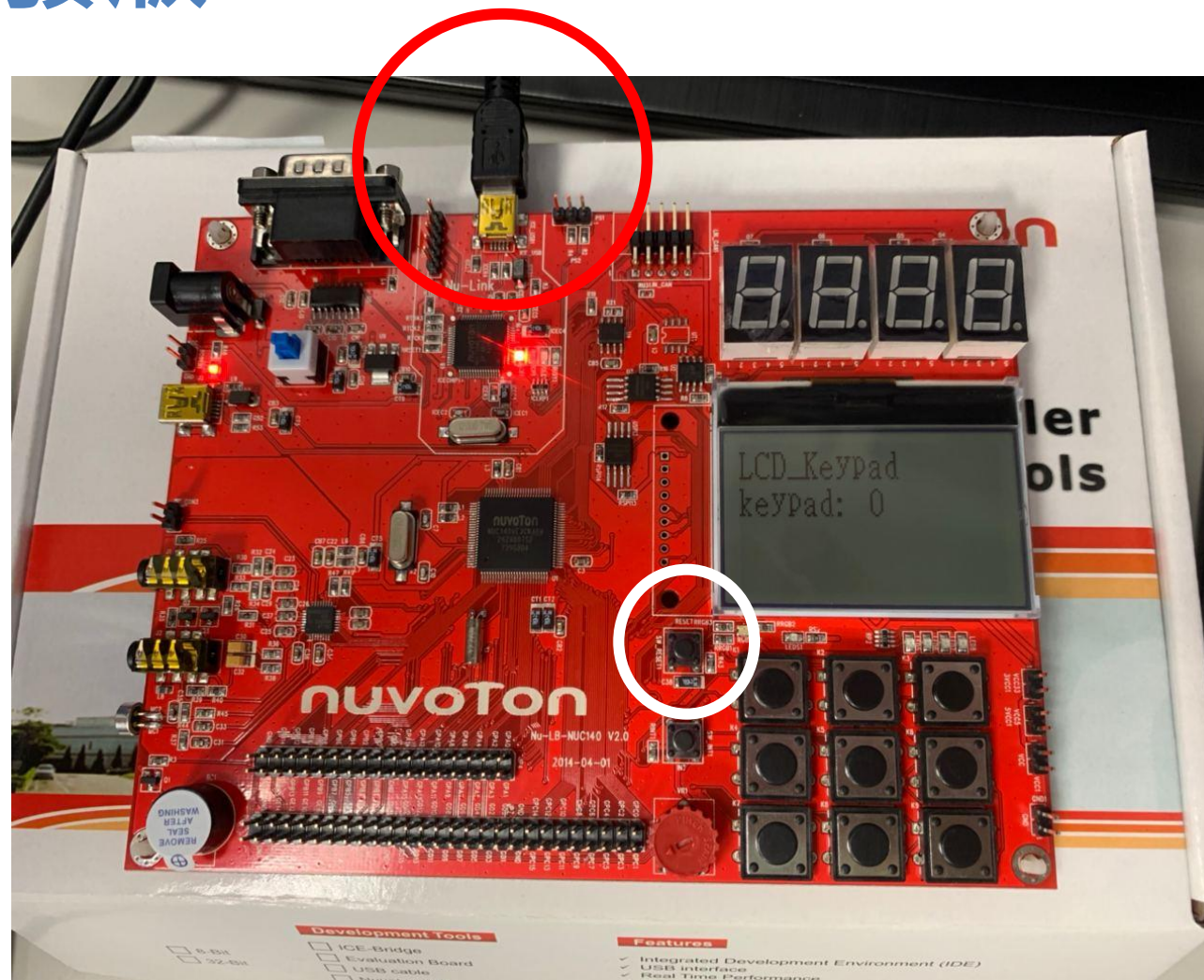
LAB_1

環境建置與 & LED

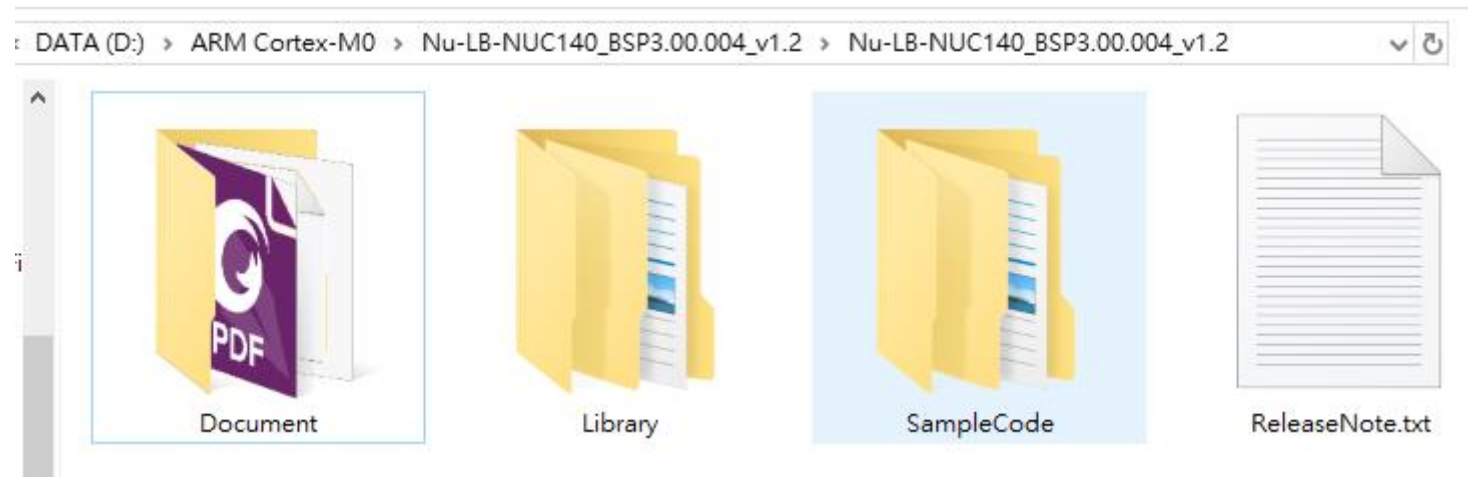
注意！實驗課會佔你總成績的35%！

環境建置

連接開發版



BSP directory

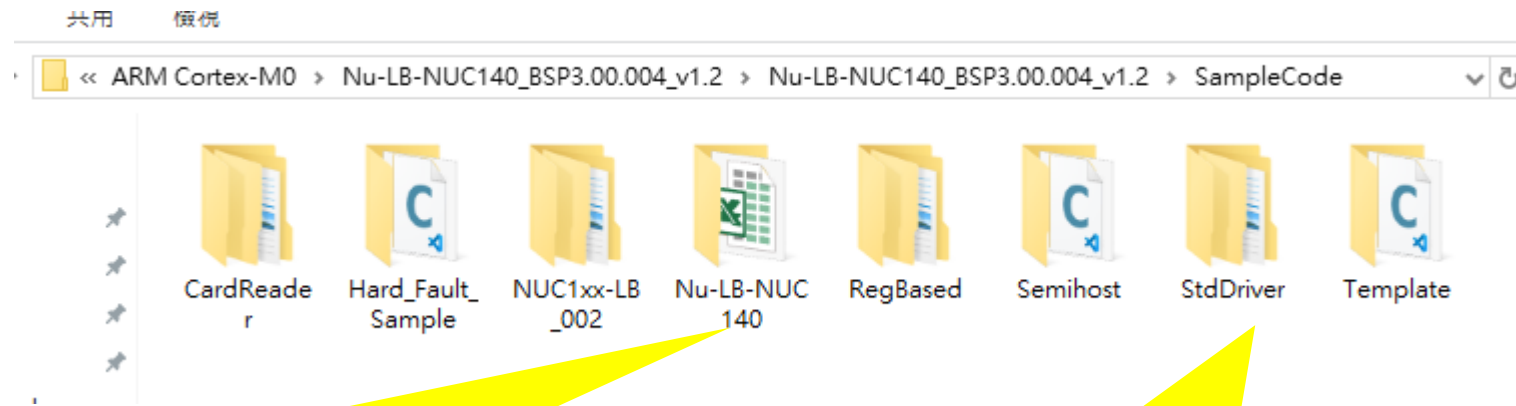


MCU documents (驅動程式查詢文檔)

MCU device drivers/libraries (週邊驅動之函式庫)

MCU sample codes (範例程式)

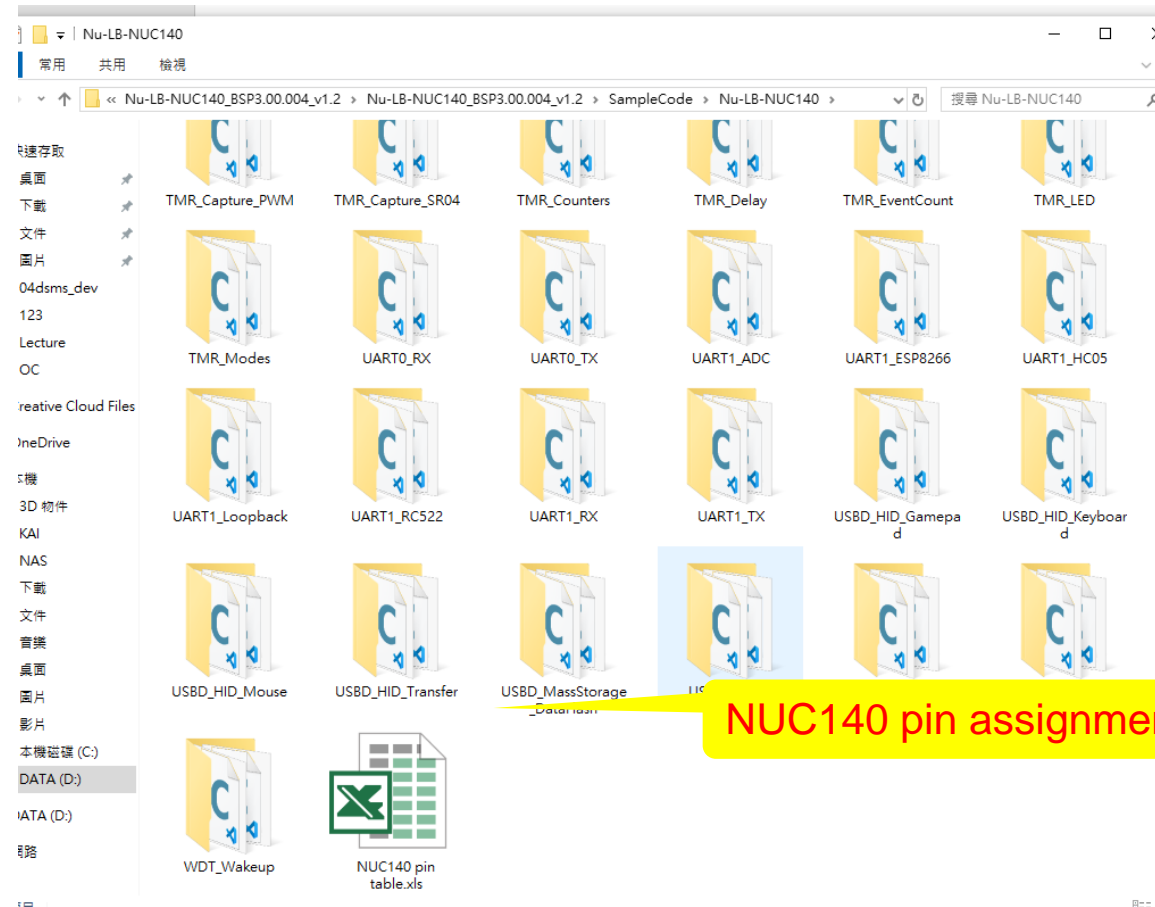
Sample Code directory



Learning Board sample code (學習板範例程式)

Chip interface standard Driver sample code (標準驅動範例程式)

Sample Code directory



NUC140 pin assignment table (晶片腳位表)

專案結構 – 共用 Library

```

└─ .vscode
  │ {} c_cpp_properties.json
  └─ LAB_1
    │ └─ KEIL
    │   │ ≡ Nu-LB-NUC140.uvproj
    │   │
    │   └─ main.c
    │   └─ MCU_init.h
    └─ Library
      │ > CMSIS
      │ > Device
      │ > Nu-LB-NUC140
      │ > NUC1xx-LB_002
      │ > NuMakerLib
      │ > SmartcardLib
      │ > StdDriver
```

.vscode/c_cpp_properties.json
LAB_<>
Library

vscode 設定檔案
各 LAB 檔案
include

KEIL 資料夾中的 .uvproj 雙擊可以打開 Keil 專案

實際演示

KEIL環境複習網址

<https://video.fcu.edu.tw/watch/19781>

實驗

Lab_1.1

- 由右向左跑的跑馬燈 所有LAB1實驗每次delay請至少設0.3s

- 1. 

- 2. 

- 3. 

- 4. 

- 5. 

- 6. Goto 1.

Lab_1.2

- 向左向右來回跑的跑馬燈

- 1.    

- 2.    

- 3.    

- 4.    

- 5.    

- 6.    

- 7.    

- 8.    









- 9.    










- 10.    

- 11.. Goto 1.

Lab_1.3

• 向左向右來回跑並閃一閃跑馬燈

- 1. 
- 2. 
- 3. 
- 4. 
- 5. 
- 6. 
- 7. 
- 8. 

- 9. 
- 10. 
- 11. 
- 12. 
- 13. 
- 14. 
- 15. 
- 16. 
- 17.. 
- 18. Goto 1.