Lab 1 Report

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(1) Steps or commands in each part / Results of each step

```
Windows PowerShell
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請書試新的跨平台 PowerShell https://aka.ms/pscore6

PS C:\WINDOWS\system32> Set-ExecutionPolicy RemoteSigned
執行原則變更
執行原則有助於防範您不信任的指令碼。如果變更執行原則,可能會使您接觸到 about_Execution_Policies 說明主題 (網址為
https://go.microsoft.com/fwlink/?LinkID=13570) 中所述的安全性風險。您要變更執行原則嗎?
[Y] 是(Y) [A] 全部皆是(A) [N] 否(N) [L] 全部皆否(L) [S] 暫停(S) [?] 說明 (預設值為 "N"): A

PS C:\WINDOWS\system32> & "D:\User\shortcut_psi"
PS C:\WINDOWS\system32> & "D:\User\shortcut_psi"
PS C:\WINDOWS\system32> & "D:\User\shortcut_psi"
PS C:\WINDOWS\system32> & & "D:\User\shortcut_psi"
PS C:\WINDOWS\system32> & "D:\User\shortcut_psi"
PS C:\WINDOWS\system32> \( \shortcut_psi \) Program Files\Wicrosoft VS Code\;C:\Program Files \( \shortcut_psi \) (2.\Program Files\Program Files\
```

After setup the environment, we can check the variable.

Mbed01-1

```
main.cpp .../mbed01-1 x e- main.cpp .../mbed01-2 x e- led.cpp x & .mbed .../mb
       Active program
                                                             #include "mbed.h"
         mbed01-1
                                                             DigitalOut myled(LED1);
Q

← DISCO-L4S5I (B-L4S5I-IOT01A) (S/N: ... 
✓ 

                                                             int main()
ဂ္ဂ
       Build profile
                                                                 while (1)
亞
      Debug
                                                                     myled = 1; // set LED1 pin to high
                                                                     ThisThread::sleep_for(1s);
5
       myled.write(0); // set LED1 pin to low
ThisThread::sleep_for(1s);
           BUILD
          > # mbed-os
           .gitignore
           .mbed
           e- main.cpp
         > mbed01-2

∨ ■ mbed01-3

          > BUILD
          > # mbed-os
           gitignore
           .mbed
           .mbedignore
           e- main.cpp
```

Mbed01-2 (with .mbedignore)

```
e- main.cpp .../mbed01-1 x e- main.cpp .../mbed01-2 x e- led.cpp x ⊕ .mbed .../mbed
                                          ⊗0<u>∧</u>0
       Active program
                                                               #include <u>"mbed.h"</u>
         mbed01-1
                                                               DigitalOut myLED(LED1);
DigitalOut myLED2(LED3);
Q
         ♣ DISCO-L4S5I (B-L4S5I-IOT01A) (S/N: ... ∨
ဍ
                                                               void Led(DigitalOut &ledpin);
       Build profile
                                                                int main()
       Debug
亞
                                                                  myLED = 1;
myLED2 = 1;
5

∨ ■ mbed01-1

                                                                      Led(myLED);
          > 🖿 BUILD
                                                                      Led(myLED2);
          > a mbed-os
           .gitignore
           .mbed
           e- main.cpp

∨ ■ mbed01-2

          > 🖿 BUILD
            .gitignore
            .mbed
            .mbedignore
           e- led.cpp
          ✓ m mbed01-3
          > 🖿 BUILD
          > # mbed-os
```

Mbed01-3 (print the floating point)

```
ed01-2 x e- led.cpp x 🌣 .mbed .../mbed01-3 x e- main.cpp .../mbed01-3
                                                   ⊗0<u>M</u>0 1.cpp .../mb
                                                                            #include <u>"mbed.h"</u>
           mbed01-1
                                                                            // Blinking rate in milliseconds
#define BLINKING_RATE 1000ms
Q
        Target

← DISCO-L4S5I (B-L4S5I-IOT01A) (S/N: ... ∨

ဍၟ
         Build profile
         Debug
亞
                                                                                 DigitalOut led(LED1);
         第一个章
5

∨ ■ mbed01-1

                                                                                       printf("%1.5f\n", 3.14159);
ThisThread::sleep_for(BLINKING_RATE);
            > BUILD
            > # mbed-os
              gitignore
                                                                            }
              .mbed
              e- main.cpp

¬ ■ mbed01-2

            > BUILD
            > # mbed-os
              gitignore
              • .mbed
              e- led.cpp
             e- main.cpp

∨ ■ mbed01-3

            > BUILD
            > # mbed-os
              gitignore
                                                                 🏴 Output 🗴 🔞 Libraries 🗴 >_ DISCO-L4S5I (B-L4S5I-IOT01ABaud rate 9600 🔻 🛎 🕹
              • .mbedignore
                                                                3.14159
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3.14159
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3.14159
              e- main.cpp
```

(2) Encountered issues

Following the workbook, you generally won't encounter any problems. The minor issue is that after placing the .mbedignore file in the root of the source code, you may see red crosses next to the file, but it won't actually affect the outcome.

(3) Discussion

This lab helps us learn how to operate the tools, and it's not very difficult!

(4) Check Point

