

微算機原理與實習

ANDESIGHT IDE安裝及專案建置

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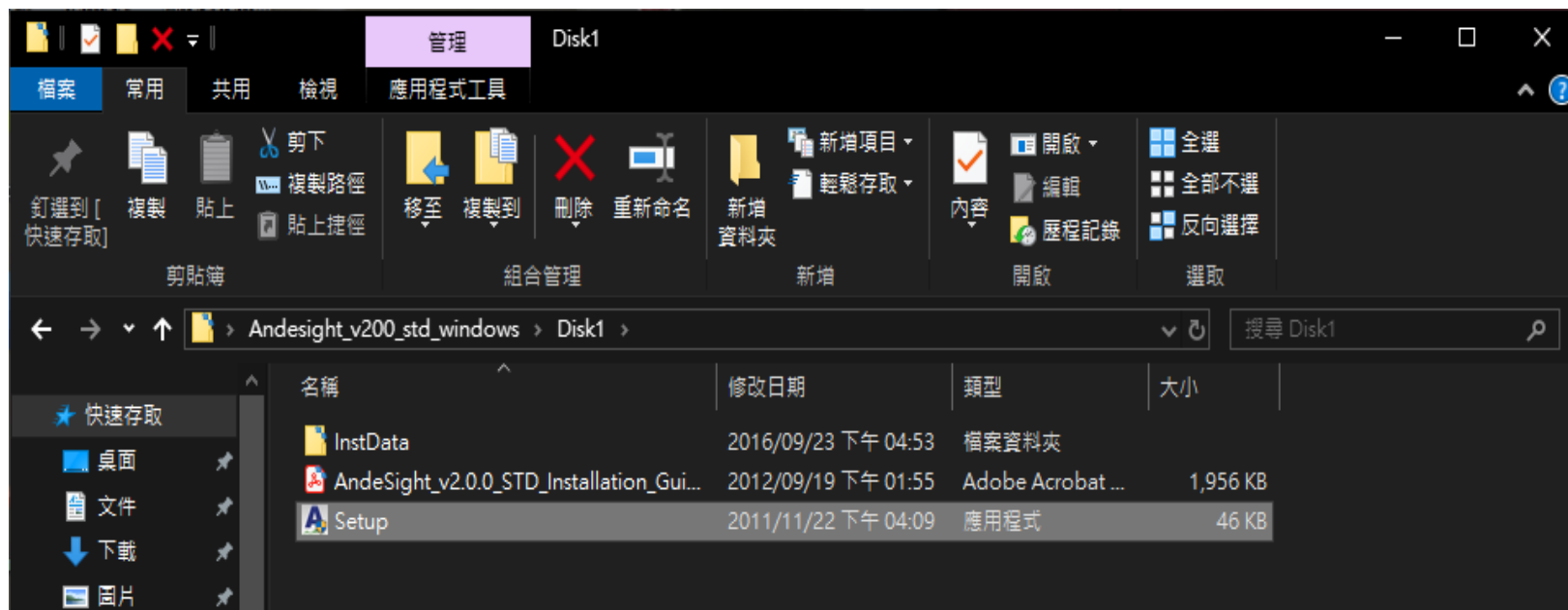
指導老師：周志學

Outline

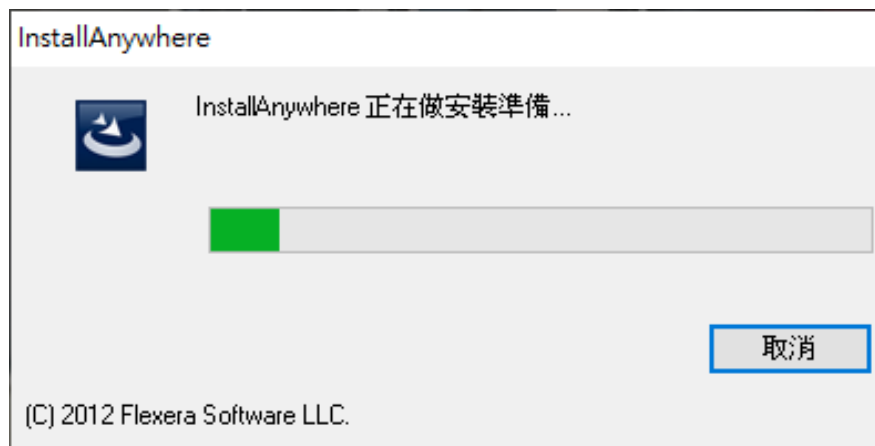
- 一、AndeSight IDE安裝
- 二、AndeSight IDE環境建置
- 三、AndeSight IDE專案建置
- 四、AndeSight IDE實作

一、ANDESIGHT IDE安裝

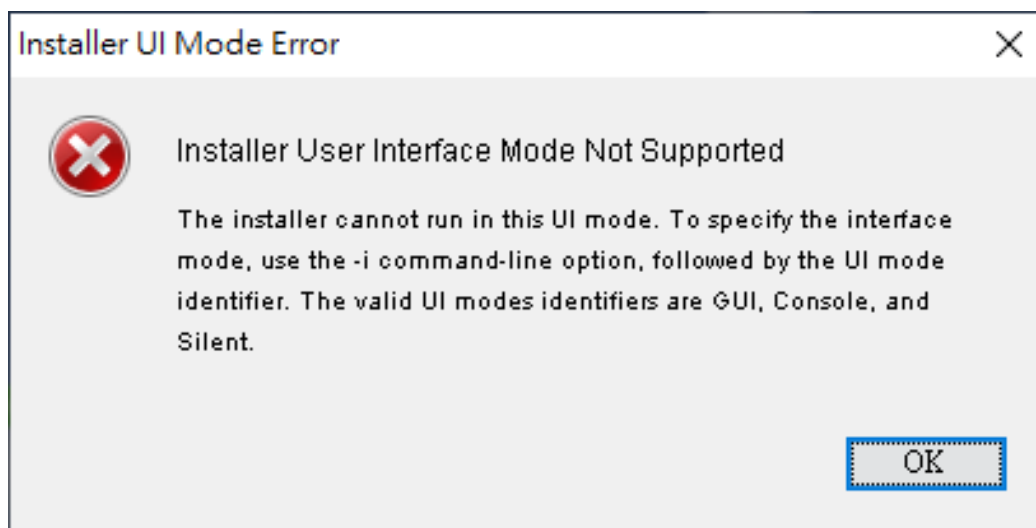
1.點選Setup進行安裝(1/2)



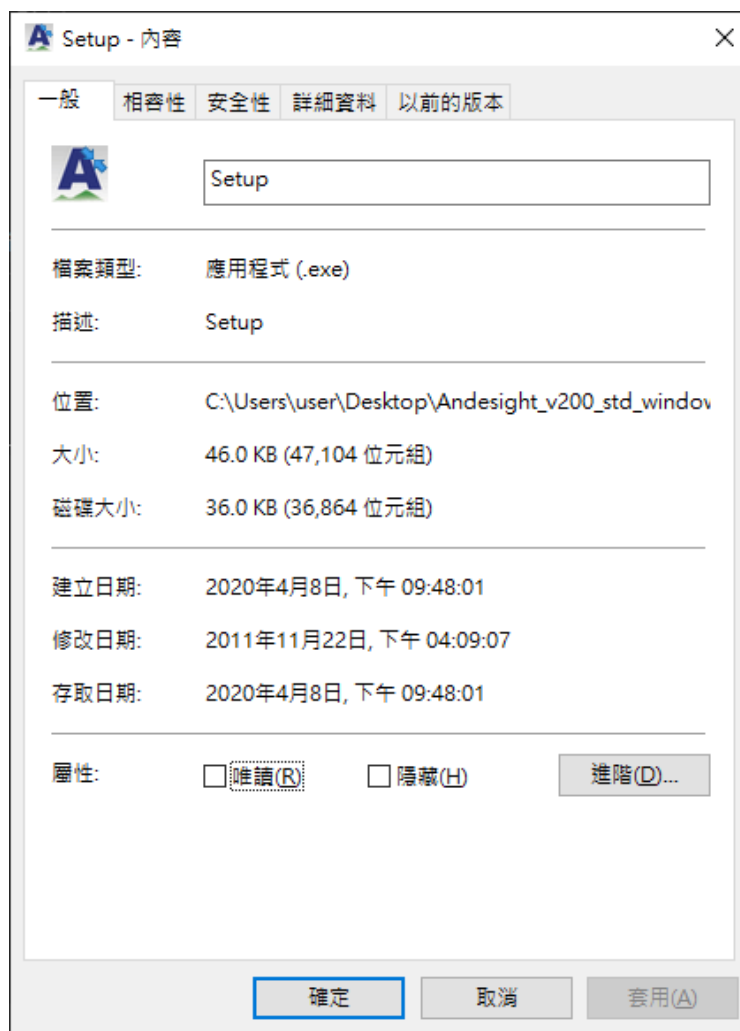
1.點選Setup進行安裝(2/2)



Windows10 安裝會遇到-UI模式錯誤 解決方法如下：



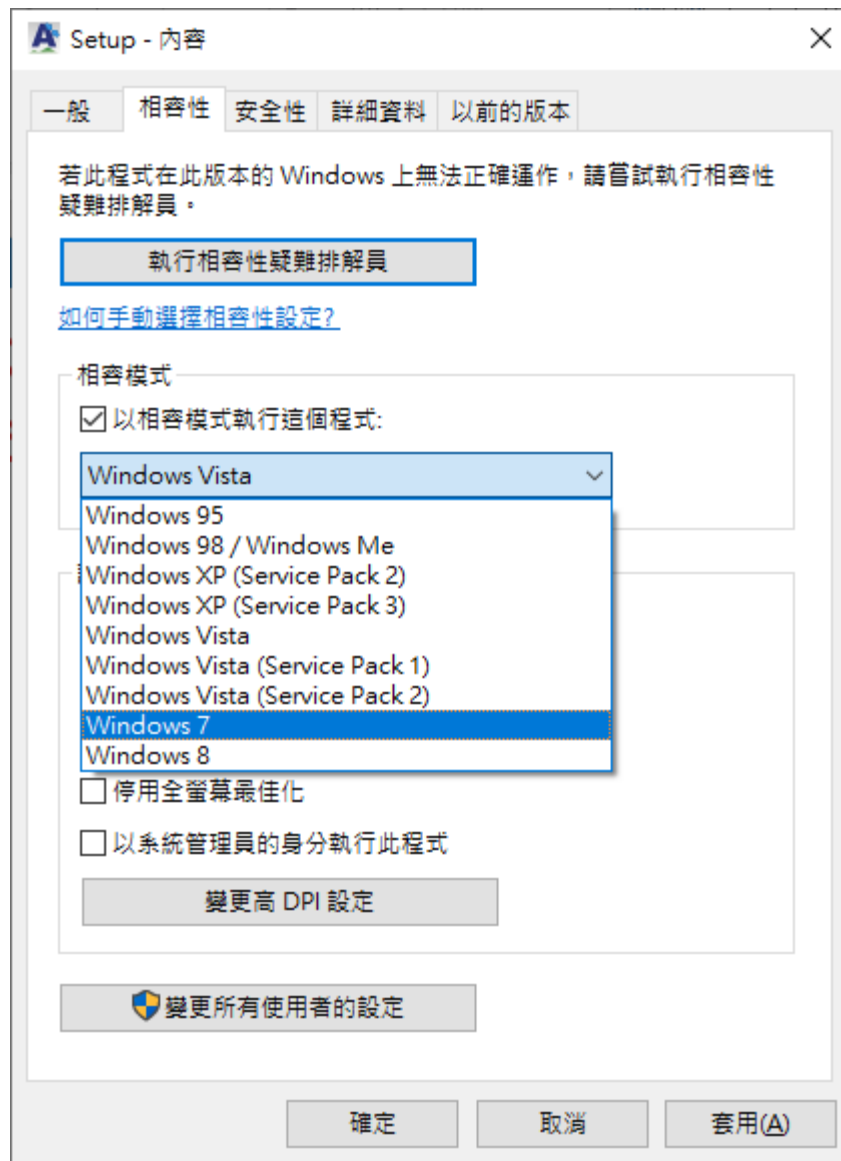
(1)右鍵點選安裝軟體內容



(2)點選相容性

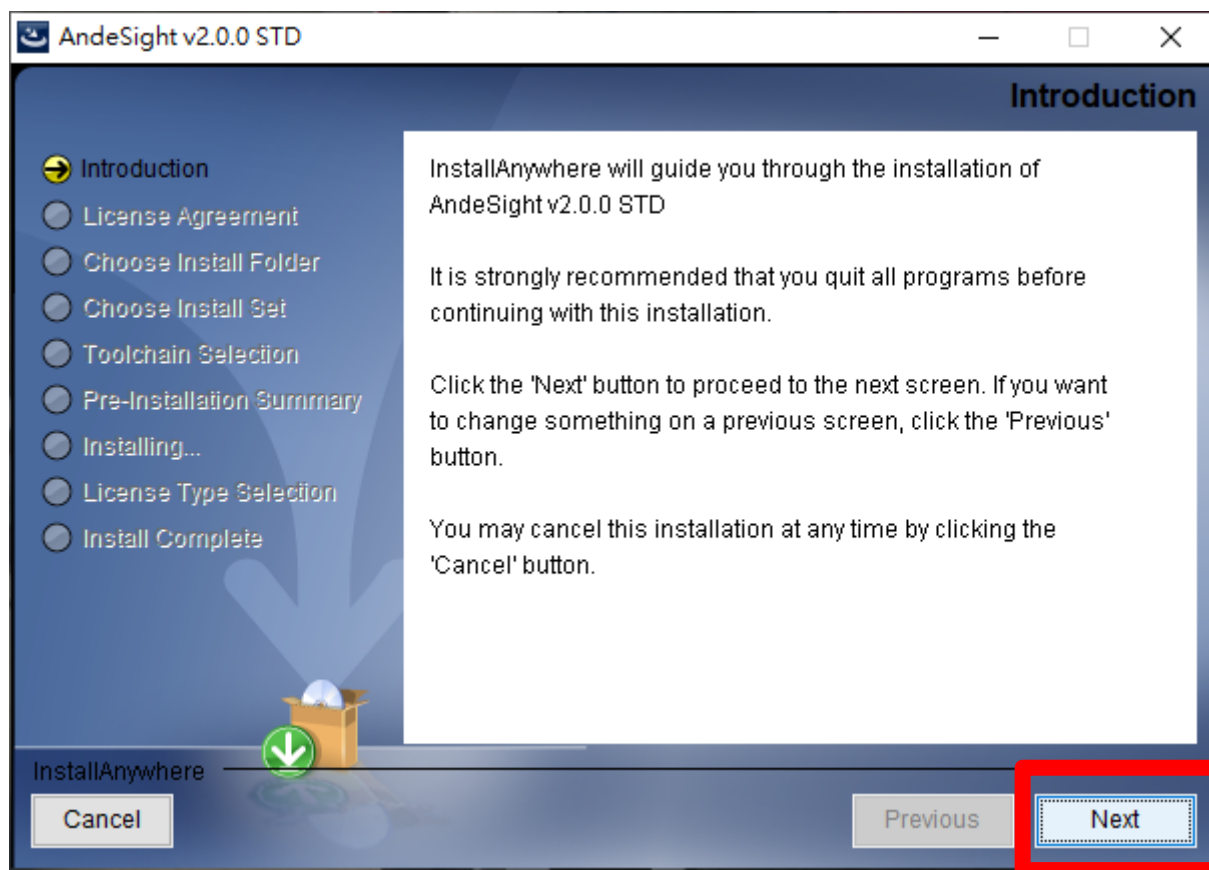


(3)勾選以相容模式
執行這個程式
(4)勾選後
選擇Windows7
(5)點選套用、確定

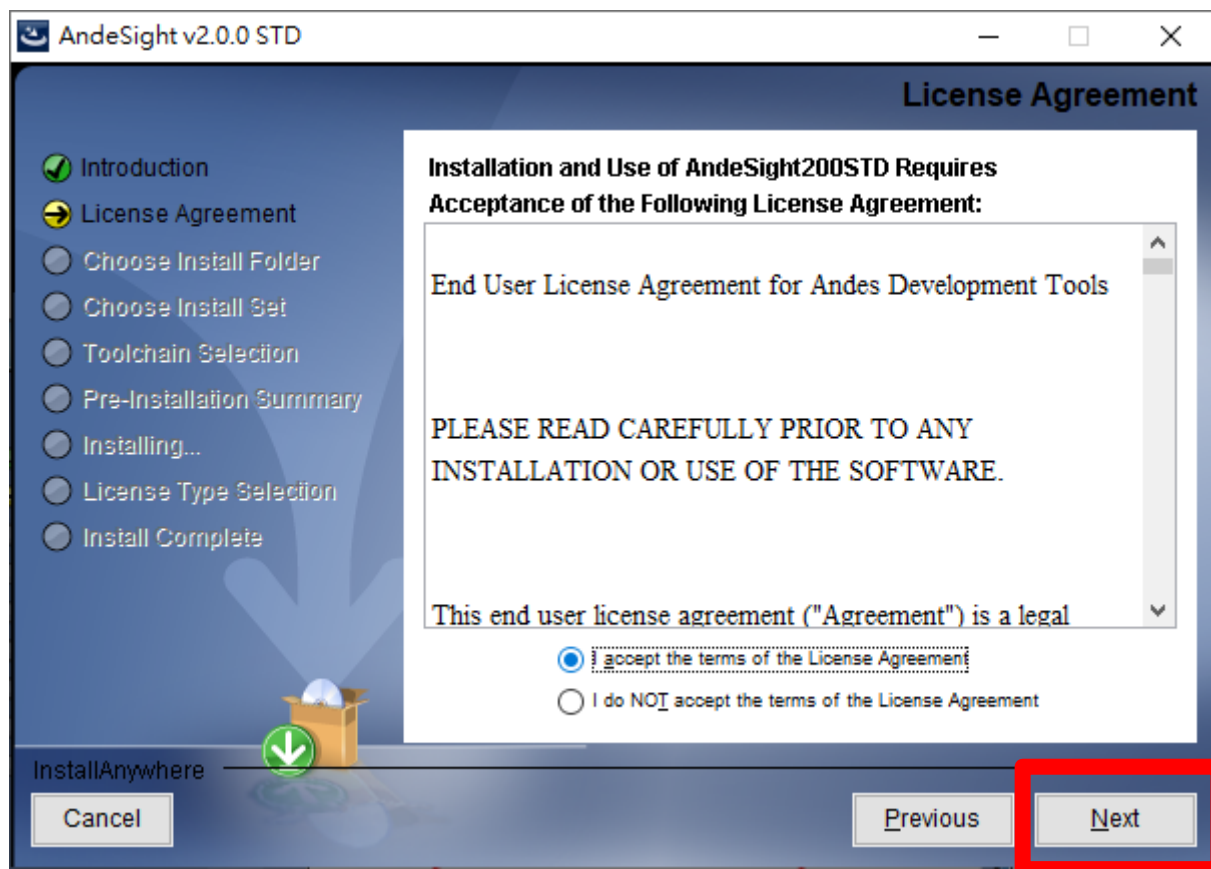


完成以上步驟後即可正常安裝

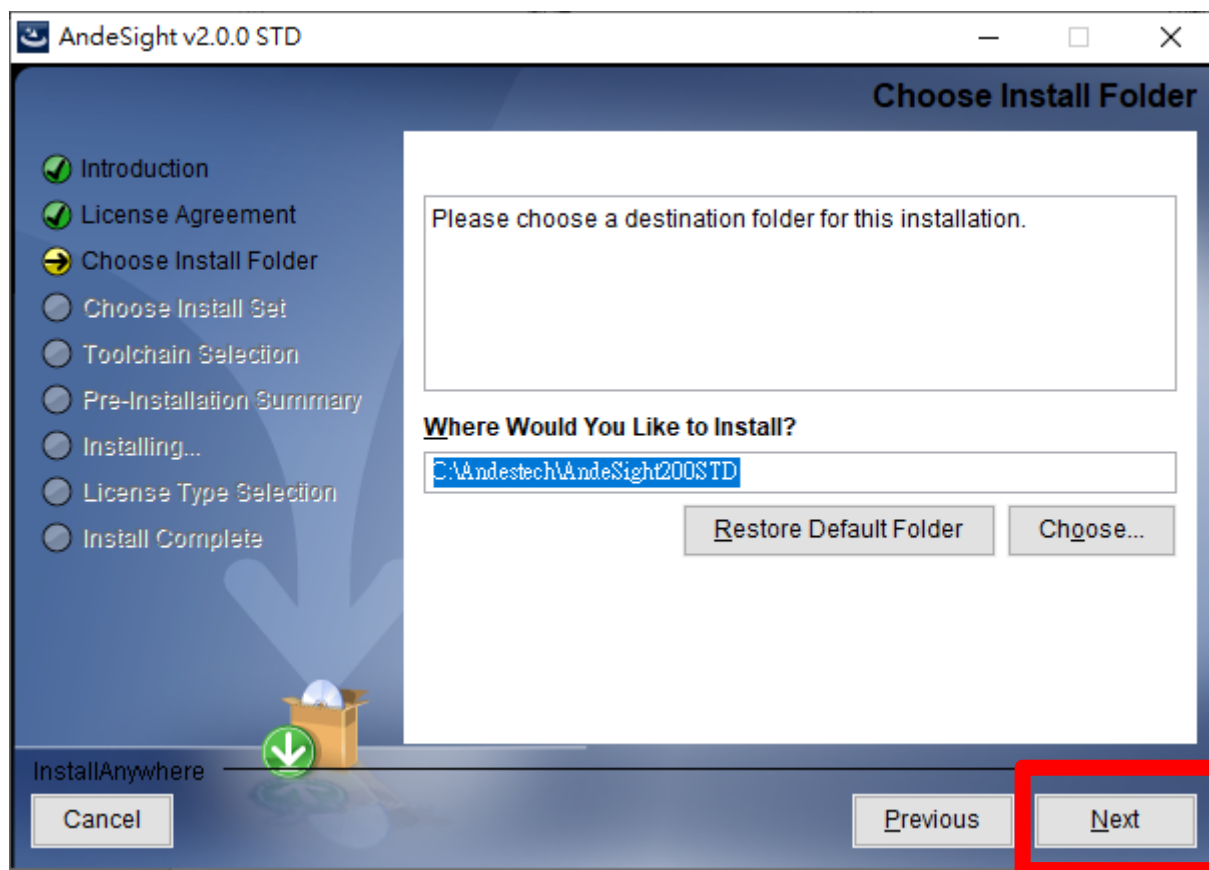
2.點選Next進到下一步



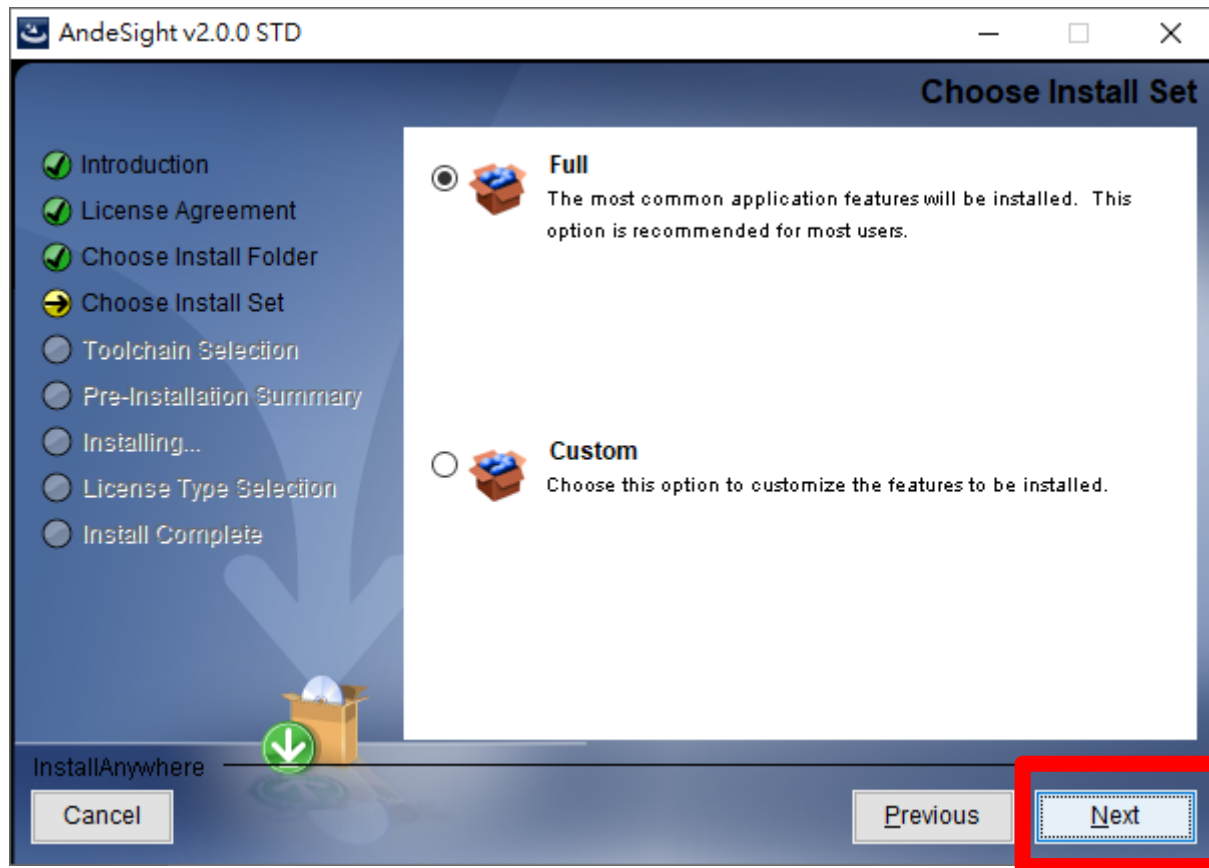
3. 勾选我接受,按Next



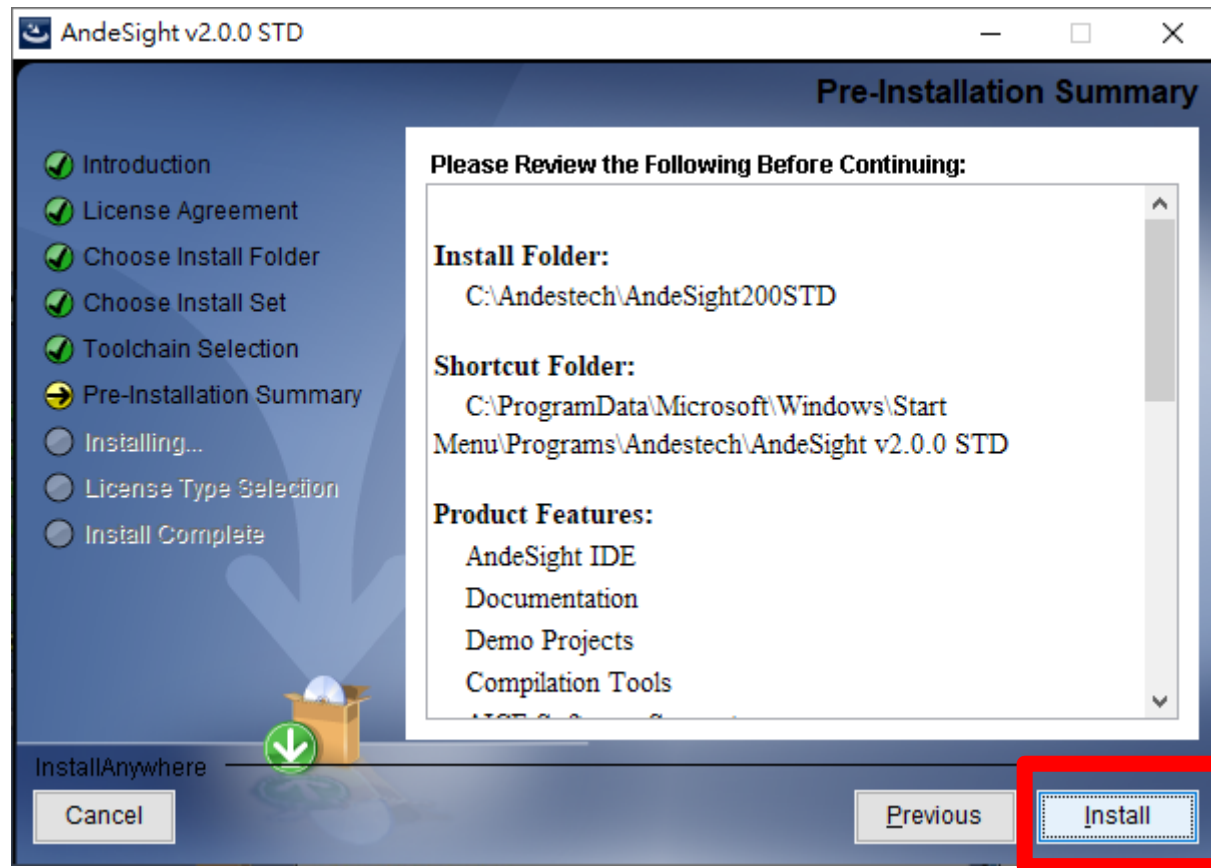
4. 確認軟體安裝於C槽,按Next



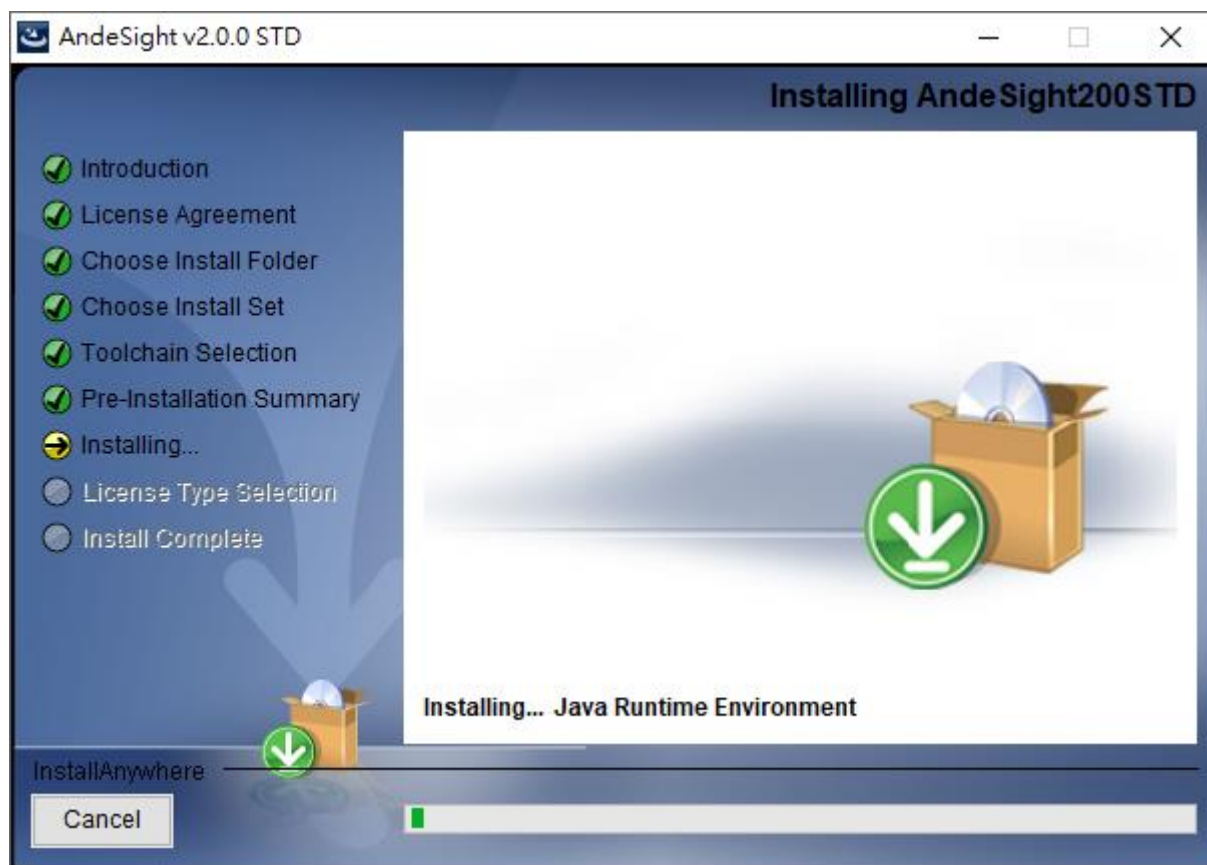
5. 按Next



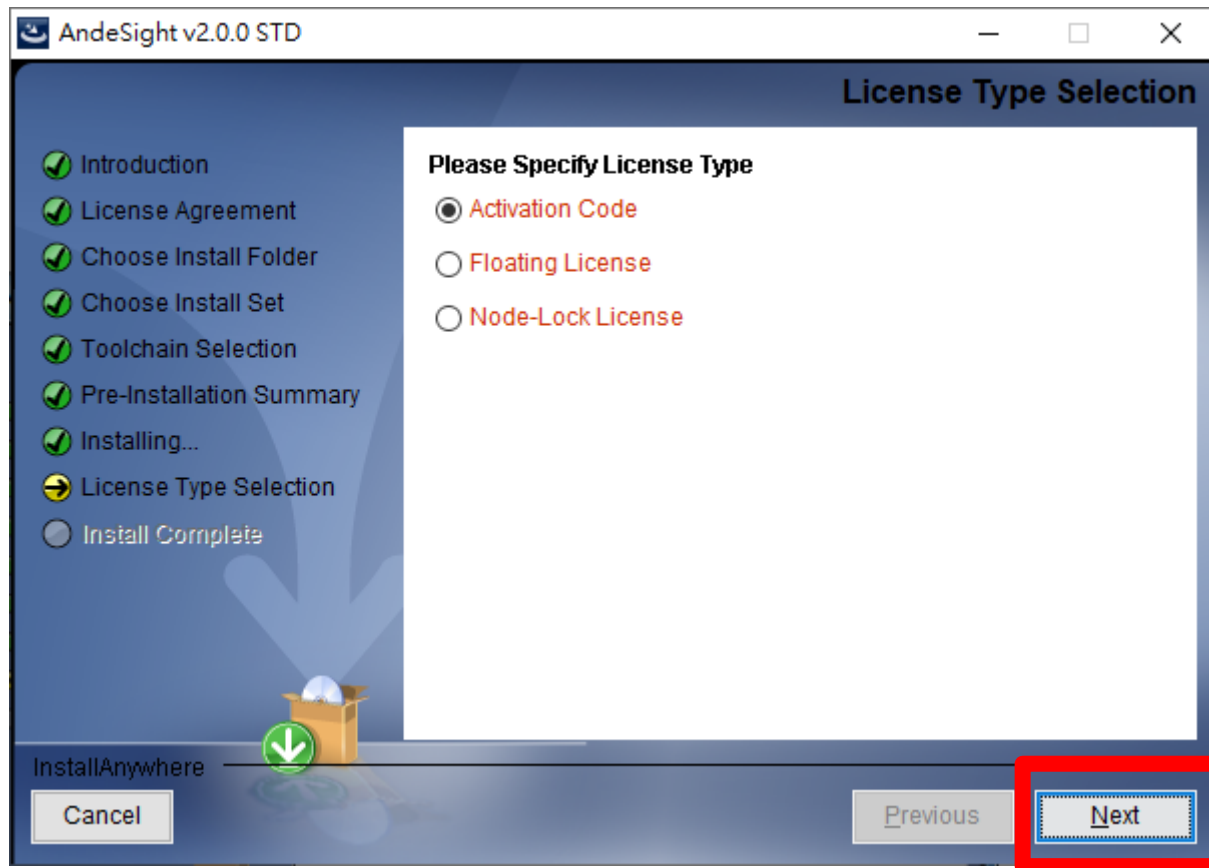
6.點選Install



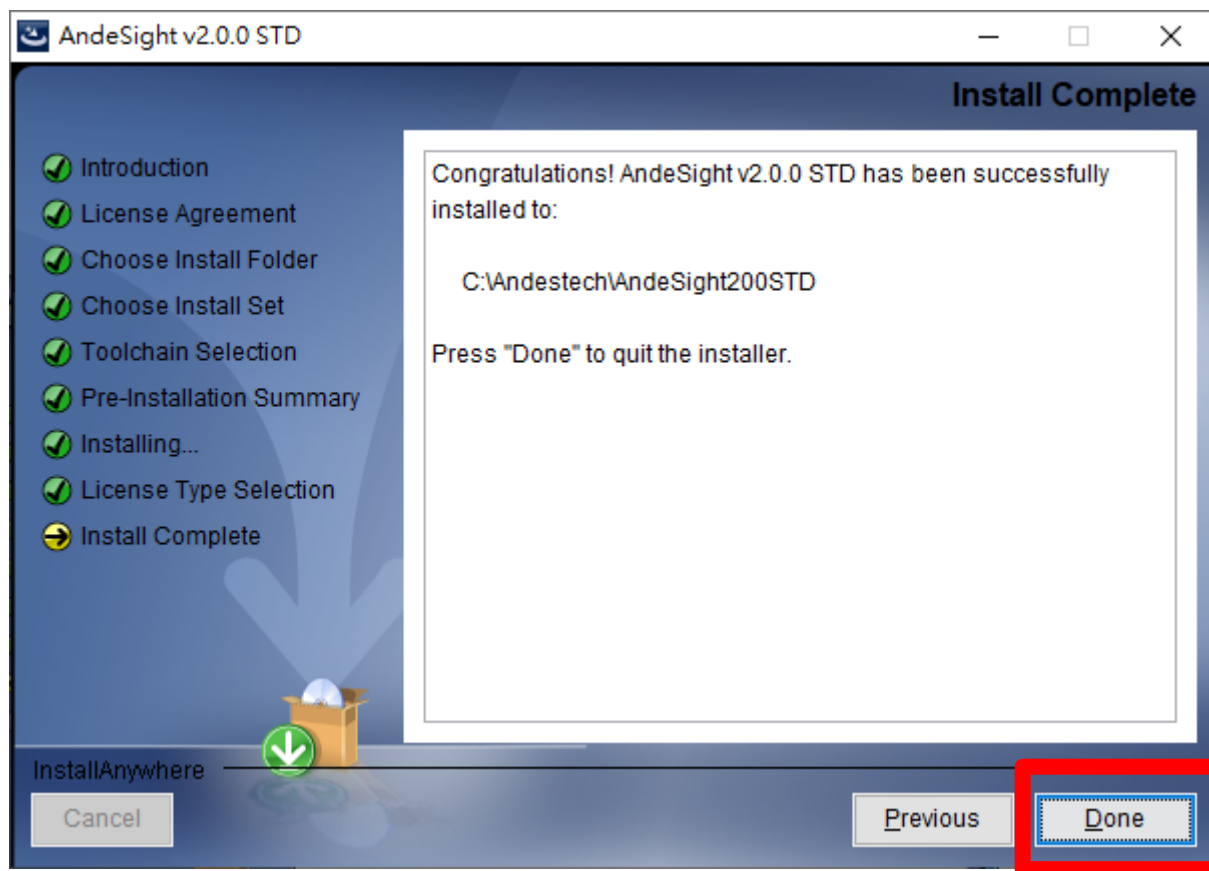
正在安裝(需花些時間)



7.按Next



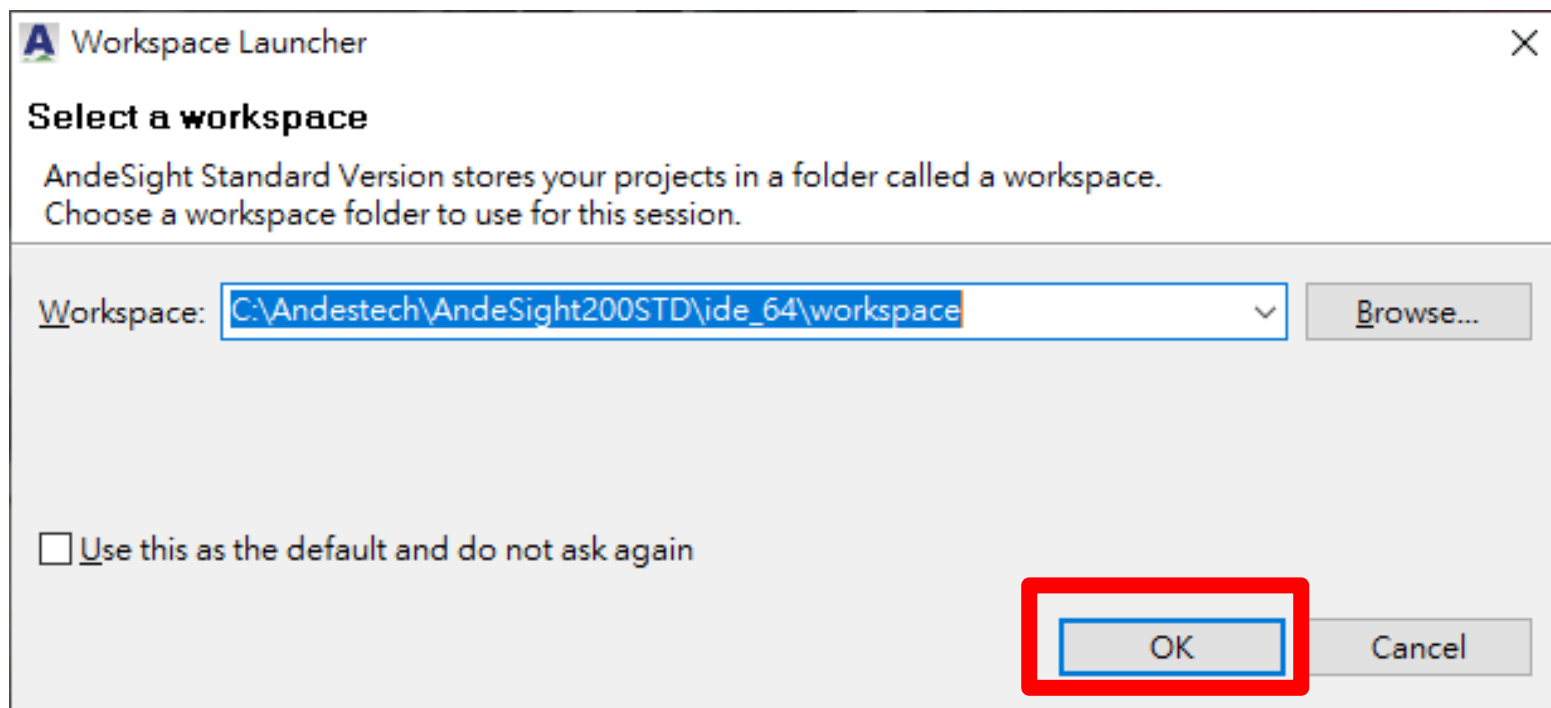
8.點選Done,以完成安裝



9.點選Andes軟體

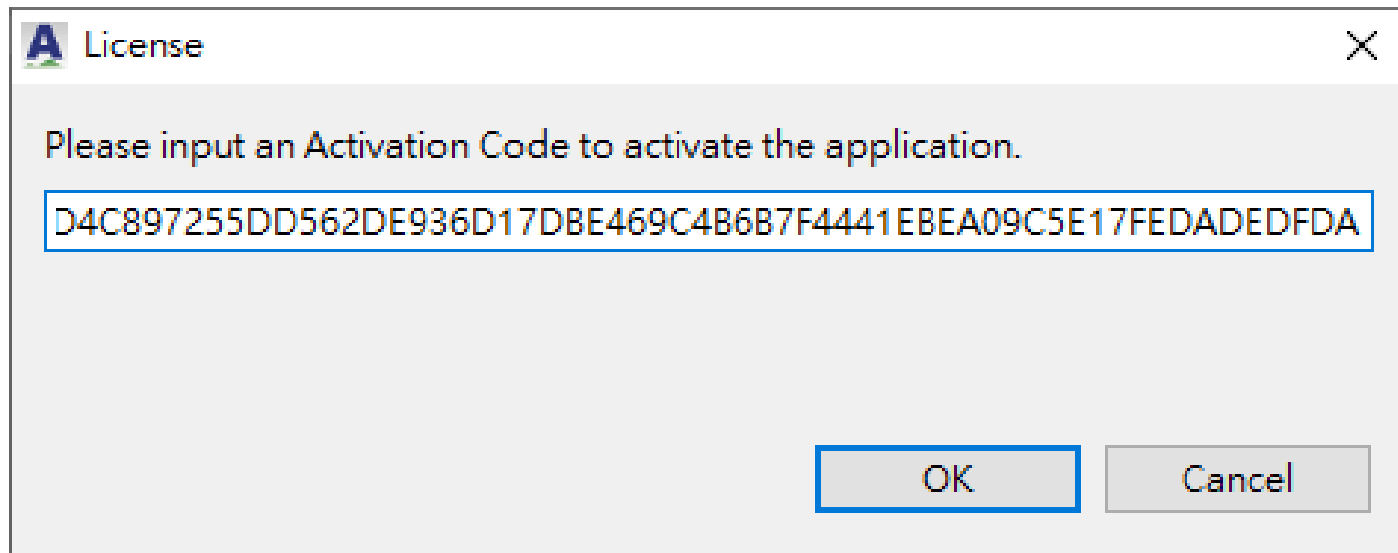


10.可選擇路徑(此為預設路徑),按Ok

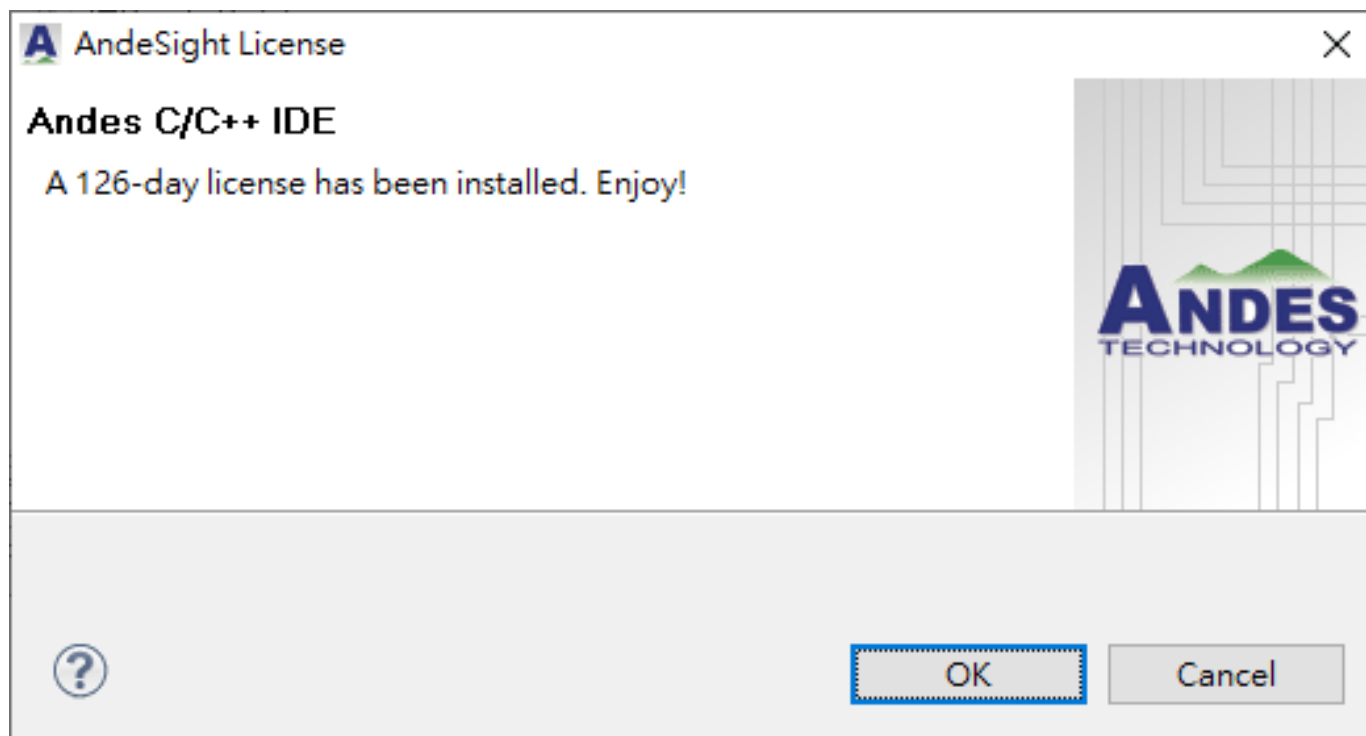


11.在輸入框內輸入License授權碼,按Ok

79B5D4C897255DD562DE936D17DBE469C4B6B7F4441EBEA09C
5E17FEDAEDFDA

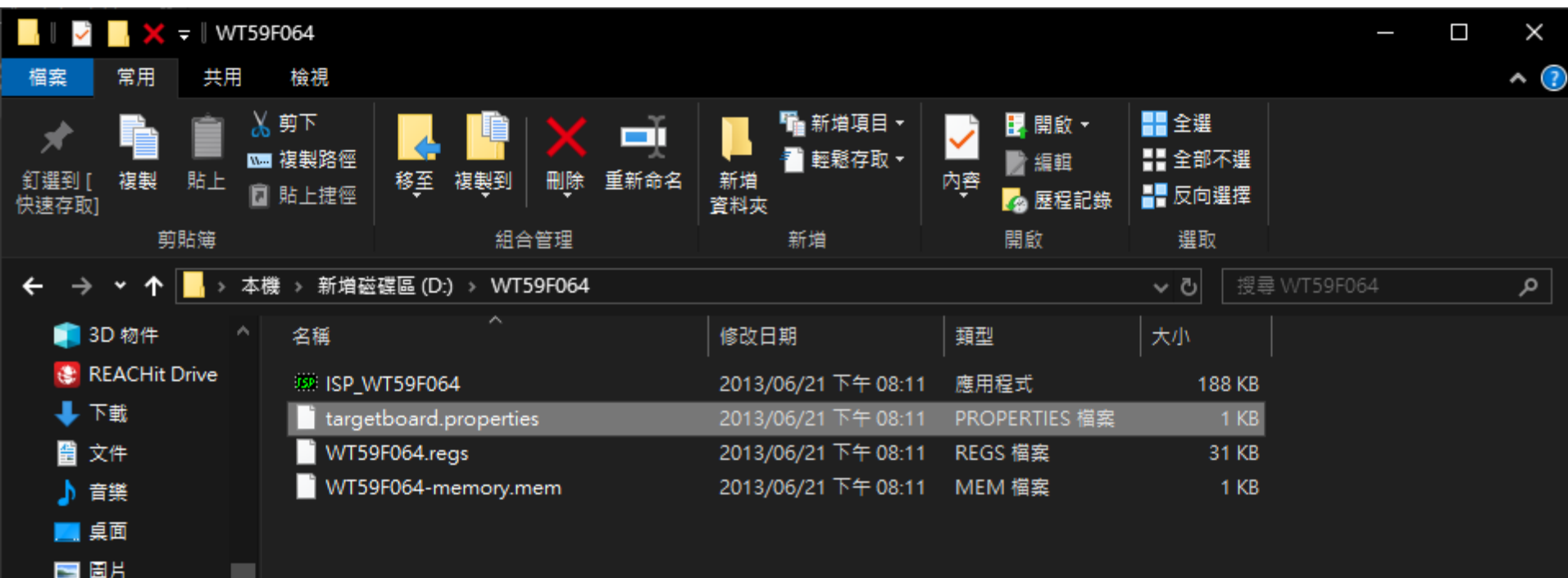


11.輸入成功



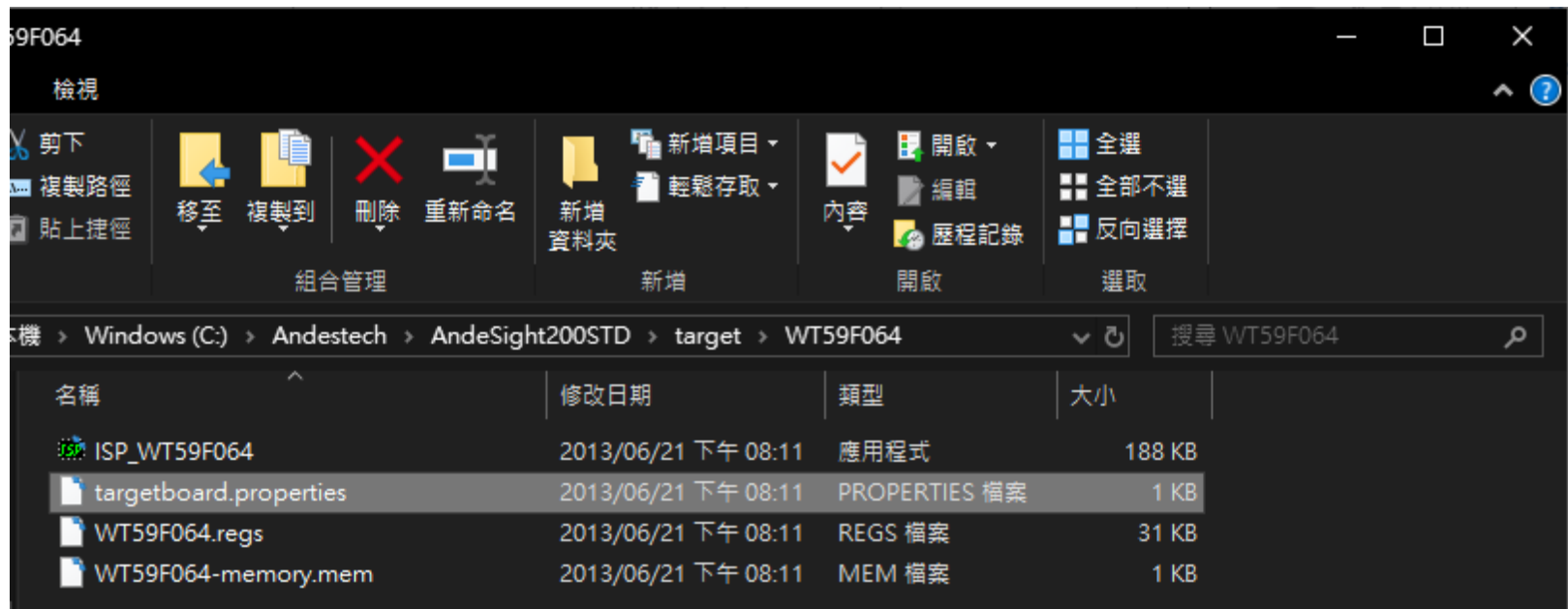
二、ANDESIGHT IDE環境建置

1.進到WT59F064裡,將 targetboard.properties檔案複製

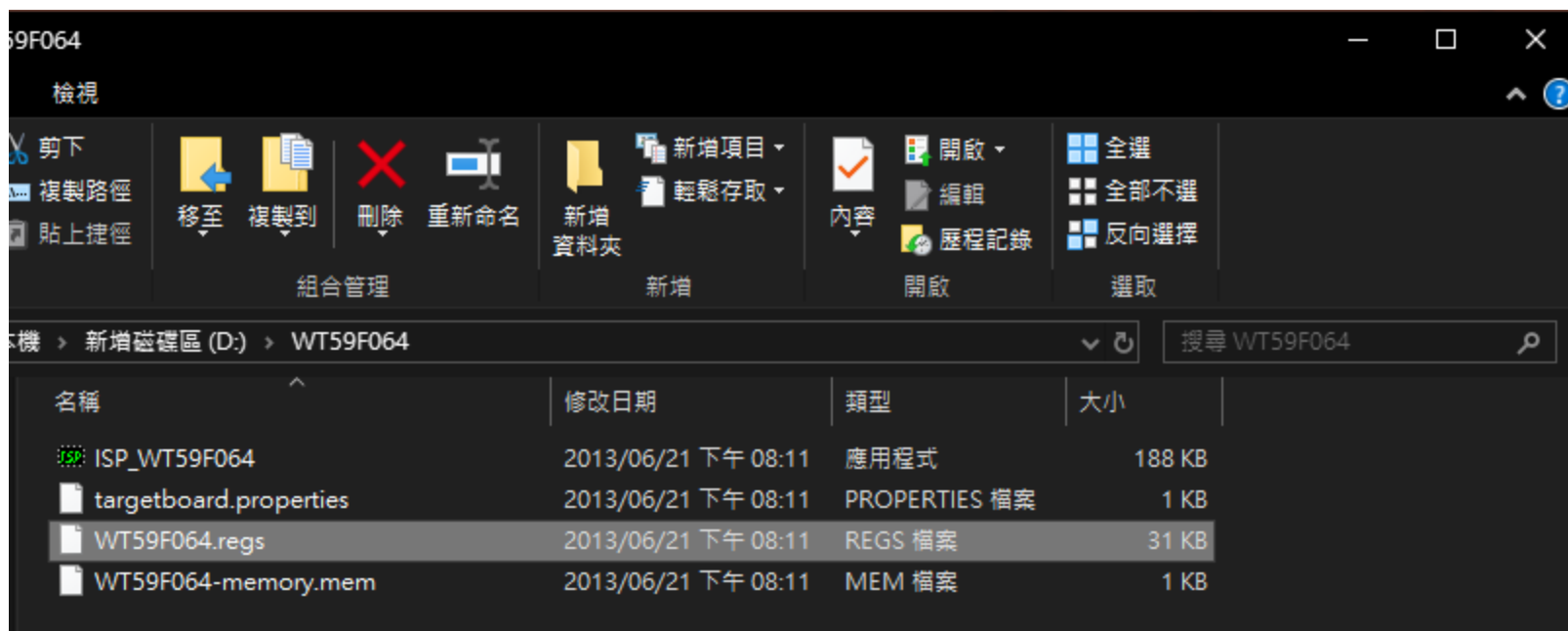


2.貼到

C:\Andestech\AndeSight201MCU\target\WT59F064

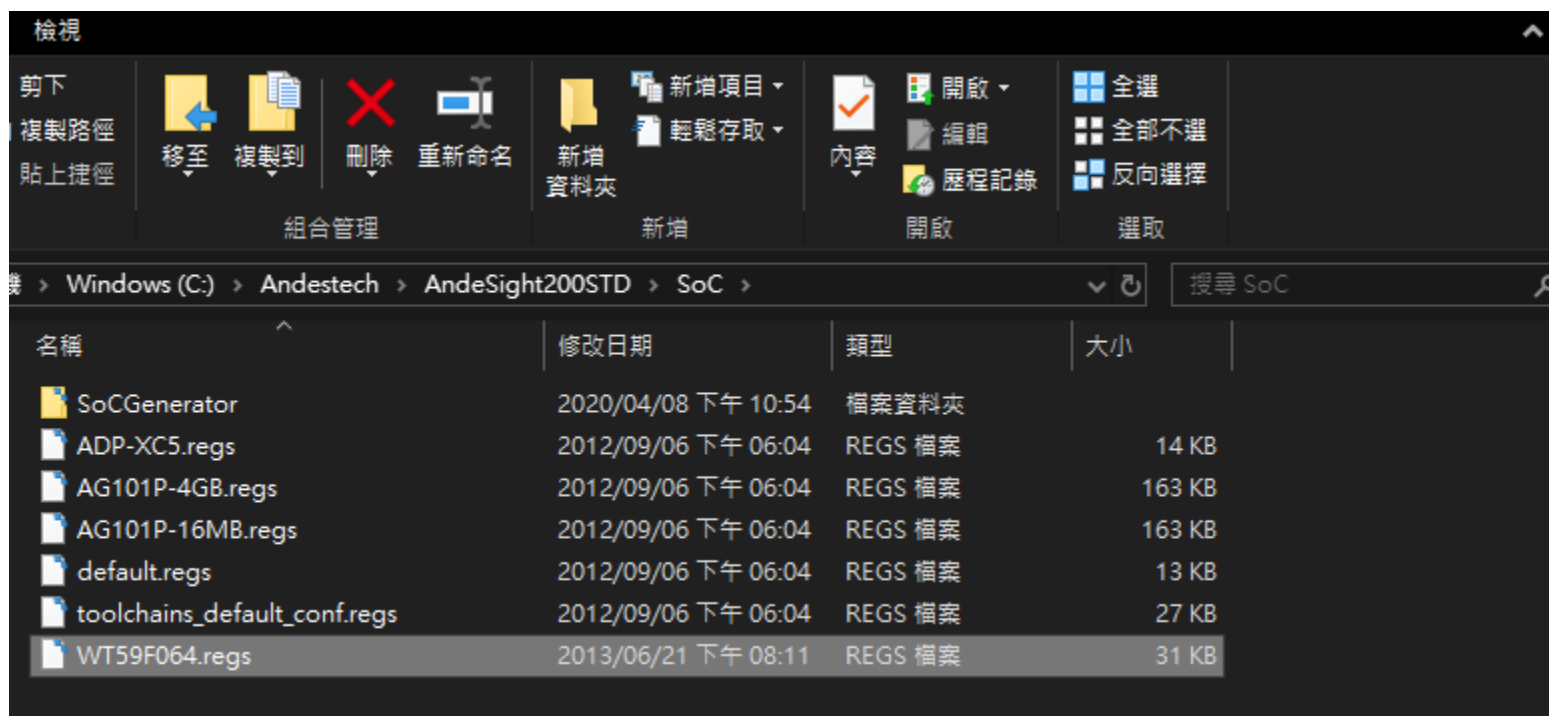


3.將WT59F064.regs複製

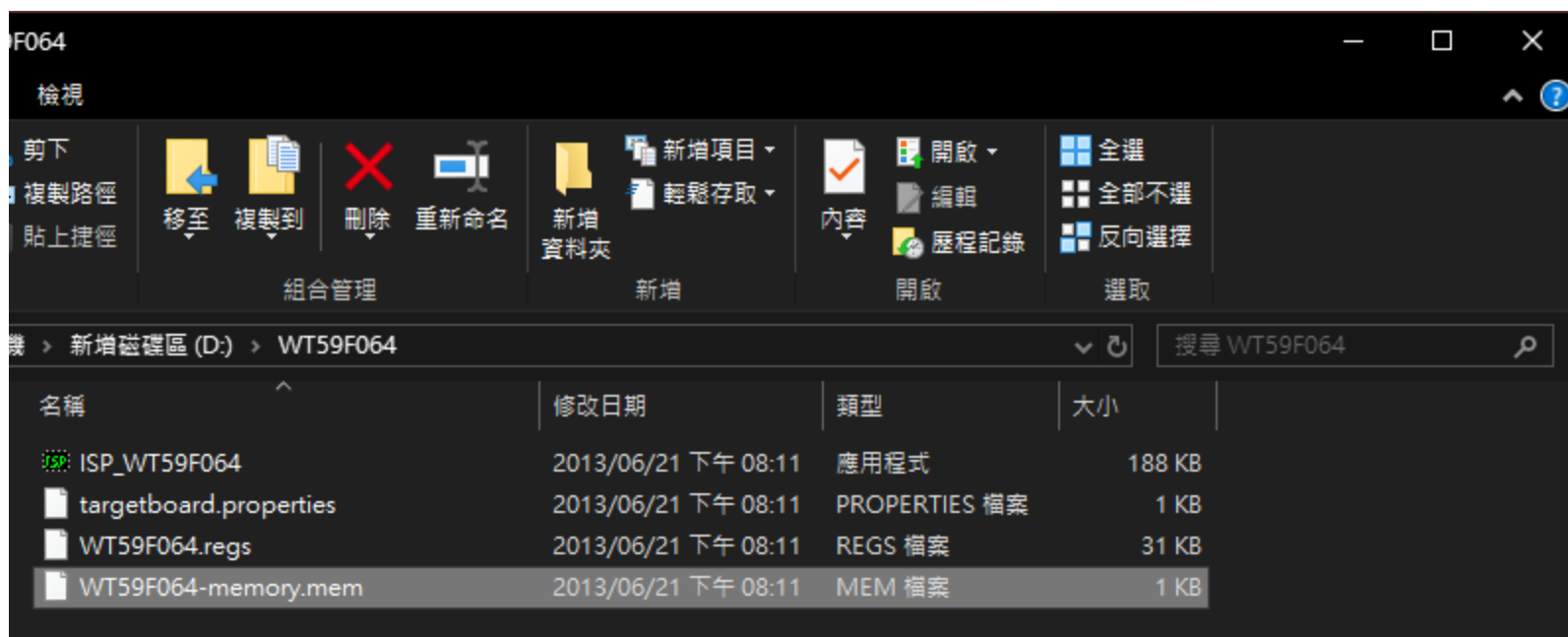


4.貼到

C:\Andestech\AndeSight201MCU\SoC

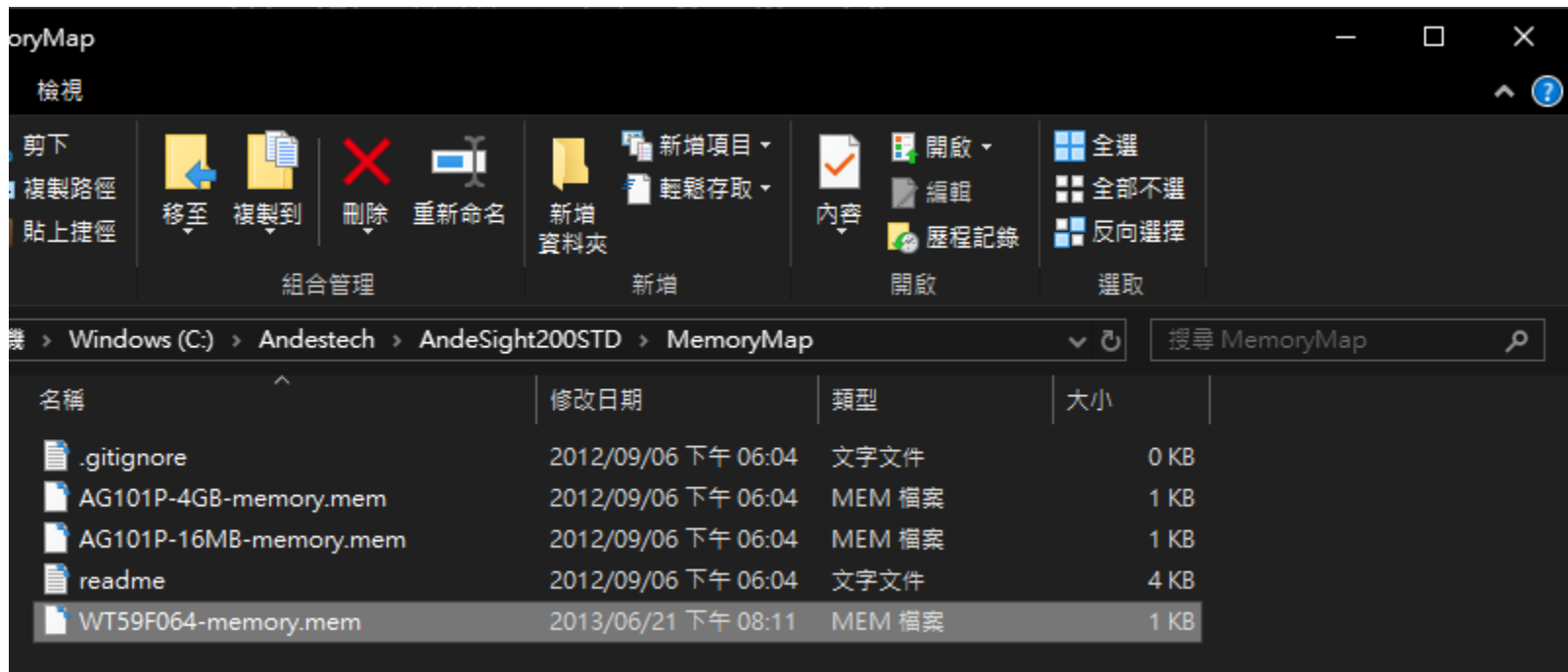


5.將WT59F064-memory.mem複製



6.貼到

C:\Andestech\AndeSight201MCU\MemoryMap



7.將軟體重開後可見WT59F064

C/C++ - - AndeSight Standard Version

File Edit Navigate Search Run Project Window Help

Project Explorer

Andes Project Creator

Chip Profile

☐ Build on resource save

Project Language

☒ C ☐ C++

Connection Type

☒ Simulator ☐ AICE

Target Chip

| Name | Chip | CPU | Simulator Config |
|-----------------------------|-----------------------------|-------------|----------------------------------|
| ADP-AG101P-16MB-N801-S | ADP-AG101P-16MB-N801-S | [N801-S] | ADP-XC5-for-N801-S-16M.vep |
| ADP-AG101P-4GB-N1033A-S | ADP-AG101P-4GB-N1033A-S | [N1033A-S] | ADP-XC5-for-N1033A-S.vep |
| ADP-AG101P-4GB-N1068A-S | ADP-AG101P-4GB-N1068A-S | [N1068A-S] | ADP-XC5-for-N1068A-S.vep |
| ADP-AG101P-4GB-N1233-FPU | ADP-AG101P-4GB-N1233-FPU | [N1233-FPU] | ADP-XC5-for-N1233-FPU.vep |
| ADP-AG101P-4GB-N1337-FPU | ADP-AG101P-4GB-N1337-FPU | [N1337-FPU] | ADP-XC5-for-N1337-FPU.vep |
| ADP-AG101P-4GB-N903-S-32GPR | ADP-AG101P-4GB-N903-S-32GPR | [N903-S] | ADP-XC5-for-N903A-S.vep |
| ADP-AG101P-4GB-N968A-S | ADP-AG101P-4GB-N968A-S | [N968A-S] | ADP-XC5-for-N968A-S.vep |
| VirtualMCU-N8 | ADP-AG101P-16MB-N801-S | [N801-S] | VirtualMCU-N8.vep |
| WT59F064 | WT59F064-16MB-N903-S-16GPR | [N903-S] | ADP-XC5-for-N903-S-16GPR-16M.vep |

Project Creator Preferences

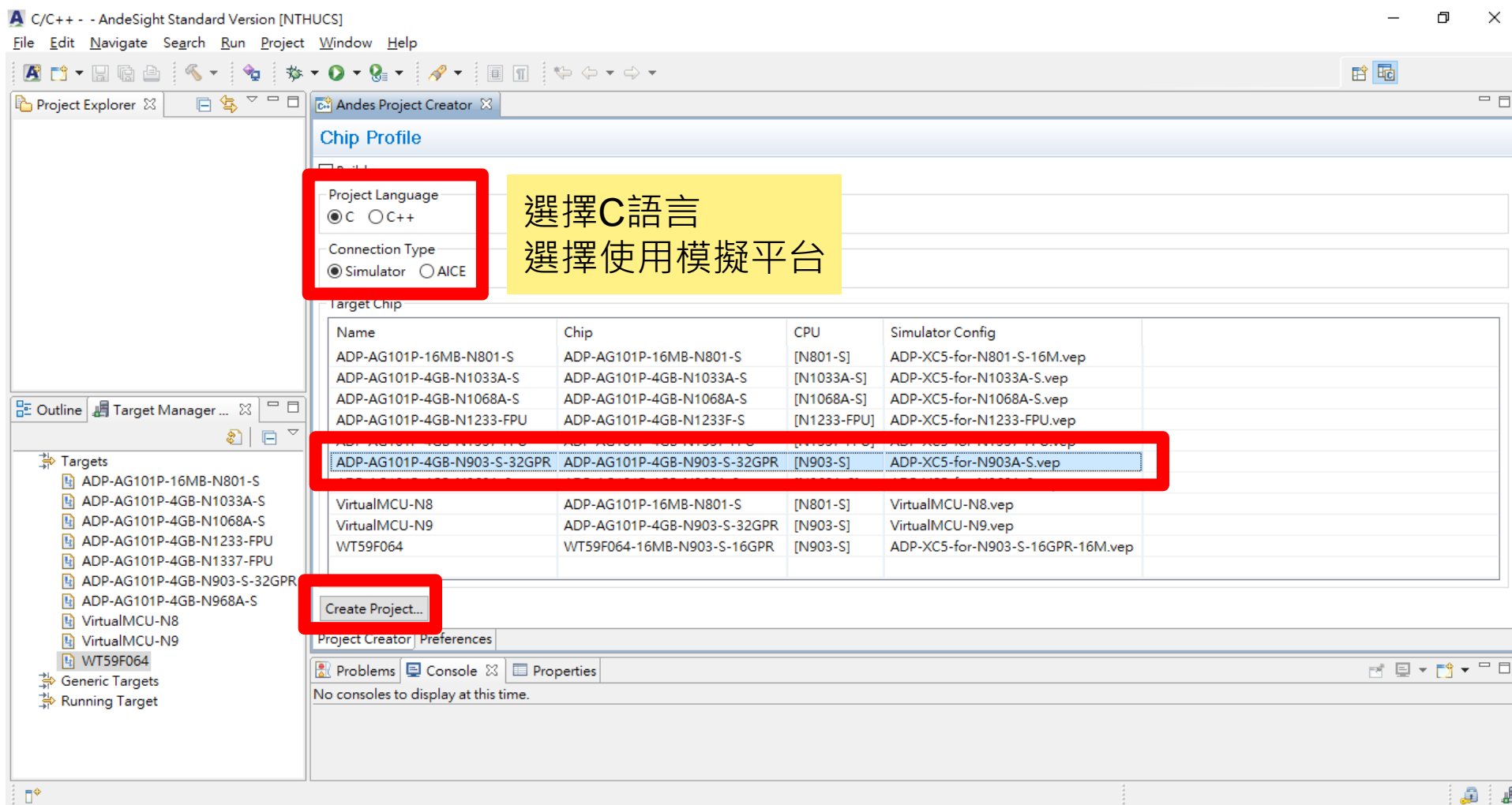
Problems Console Properties

No consoles to display at this time.

Target Resource: WT59F064

三、ANDESIGHT IDE專案建置

1.建置專案,點選Create Project (選擇程式語言.工作平台.系統晶片)



2.輸入專案名稱.選擇專案型態.工具鍊

C Project

Create C project of selected type

Project name:

☒ Use default location

Location:

Choose file system:

Connection Type

☒ Simulator ☐ AICE

Target Chip

| Name | Chip | CPU | Simulator Config |
|-----------------------------|-----------------------------|-------------|----------------------------|
| ADP-AG101P-16MB-N801-S | ADP-AG101P-16MB-N801-S | [N801-S] | ADP-XC5-for-N801-S-16M.vep |
| ADP-AG101P-4GB-N1033A-S | ADP-AG101P-4GB-N1033A-S | [N1033A-S] | ADP-XC5-for-N1033A-S.vep |
| ADP-AG101P-4GB-N1068A-S | ADP-AG101P-4GB-N1068A-S | [N1068A-S] | ADP-XC5-for-N1068A-S.vep |
| ADP-AG101P-4GB-N1233-FPU | ADP-AG101P-4GB-N1233F-S | [N1233-FPU] | ADP-XC5-for-N1233-FPU.vep |
| ADP-AG101P-4GB-N1337-FPU | ADP-AG101P-4GB-N1337-FPU | [N1337-FPU] | ADP-XC5-for-N1337-FPU.vep |
| ADP-AG101P-4GB-N903-S-32GPR | ADP-AG101P-4GB-N903-S-32GPR | [N903-S] | ADP-XC5-for-N903A-S.vep |

Project type:

☒ Andes Executable
☒ Empty Project
☐ Hello World ANSI C Project
☐ Andes Static Library
☐ Makefile project

Toolchains:

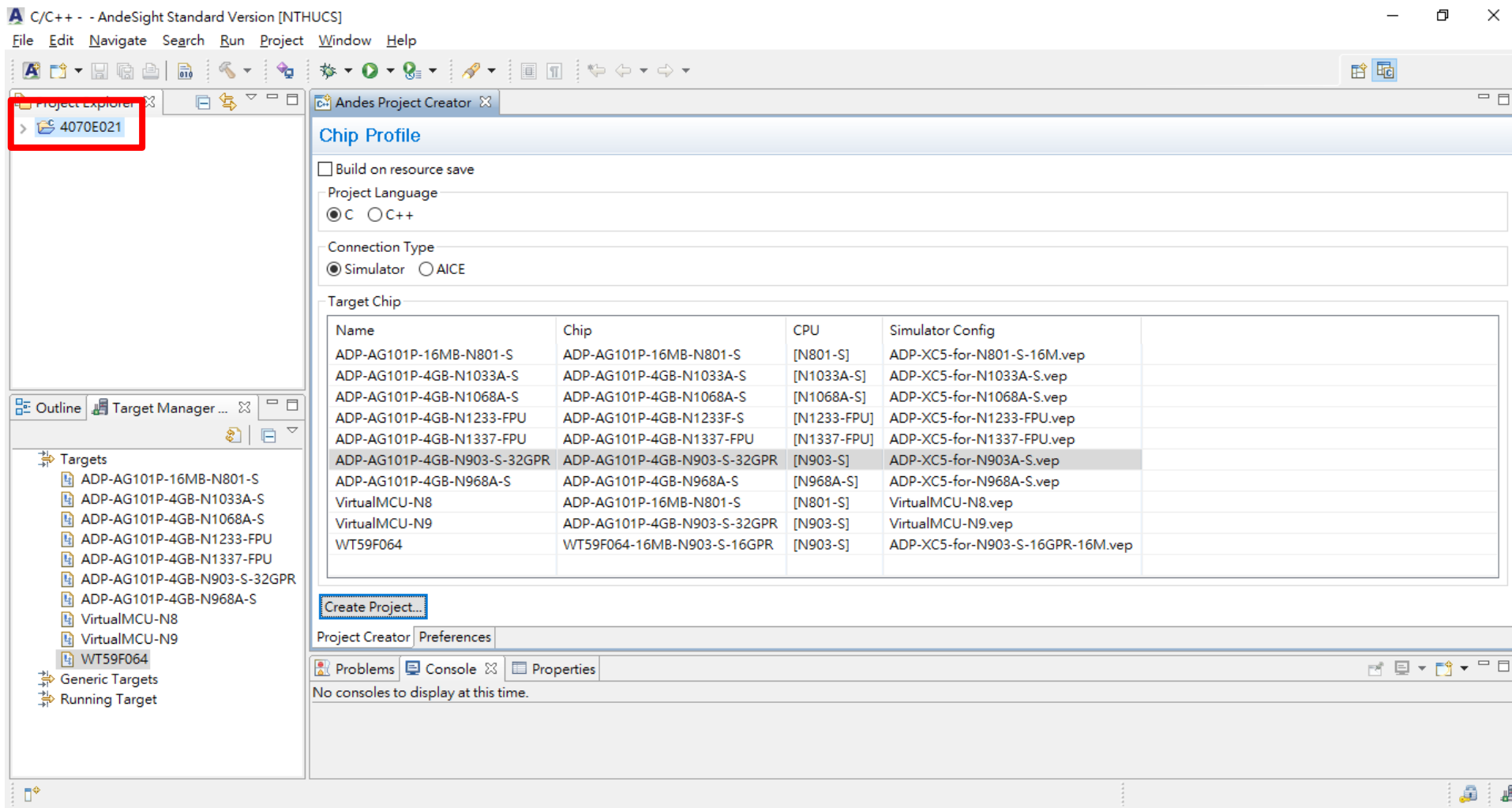
nds32le-elf-mculib-v2
nds32le-elf-mculib-v2i
☒ nds32le-elf-newlib-v2
nds32le-elf-newlib-v2j

☒ Show project types and toolchains only if they are supported on the platform

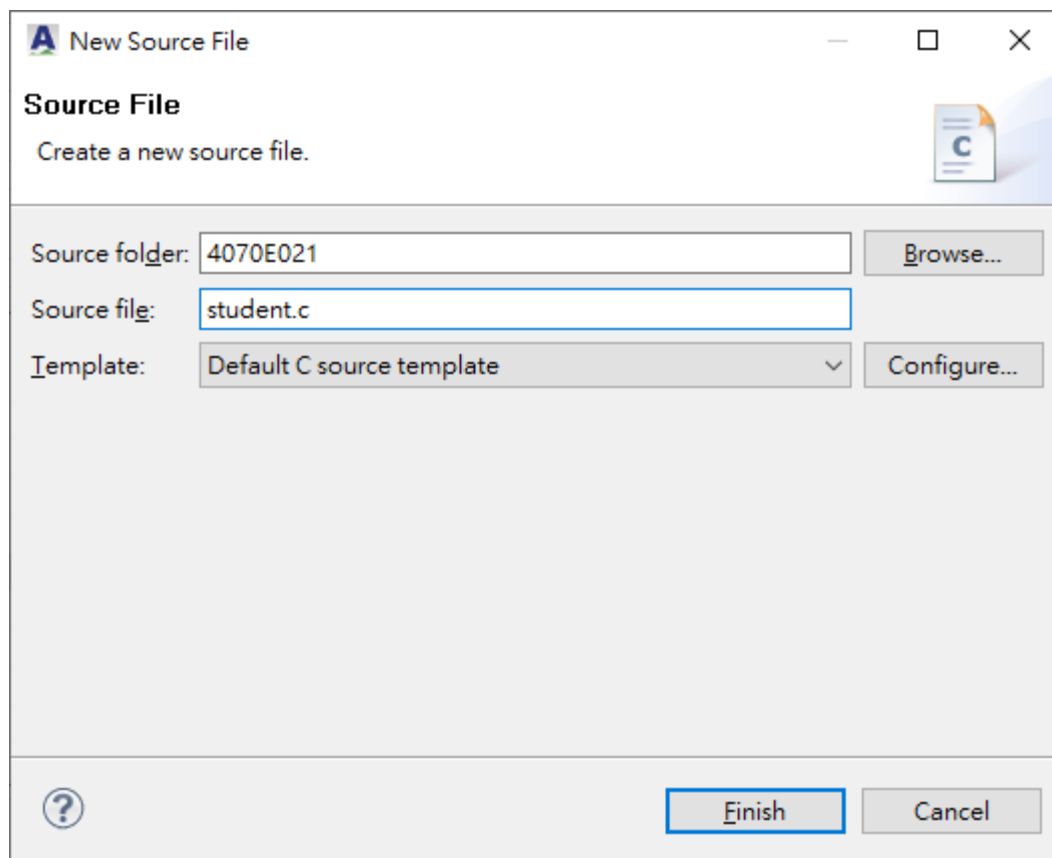
輸入學號

按Finish建置完成

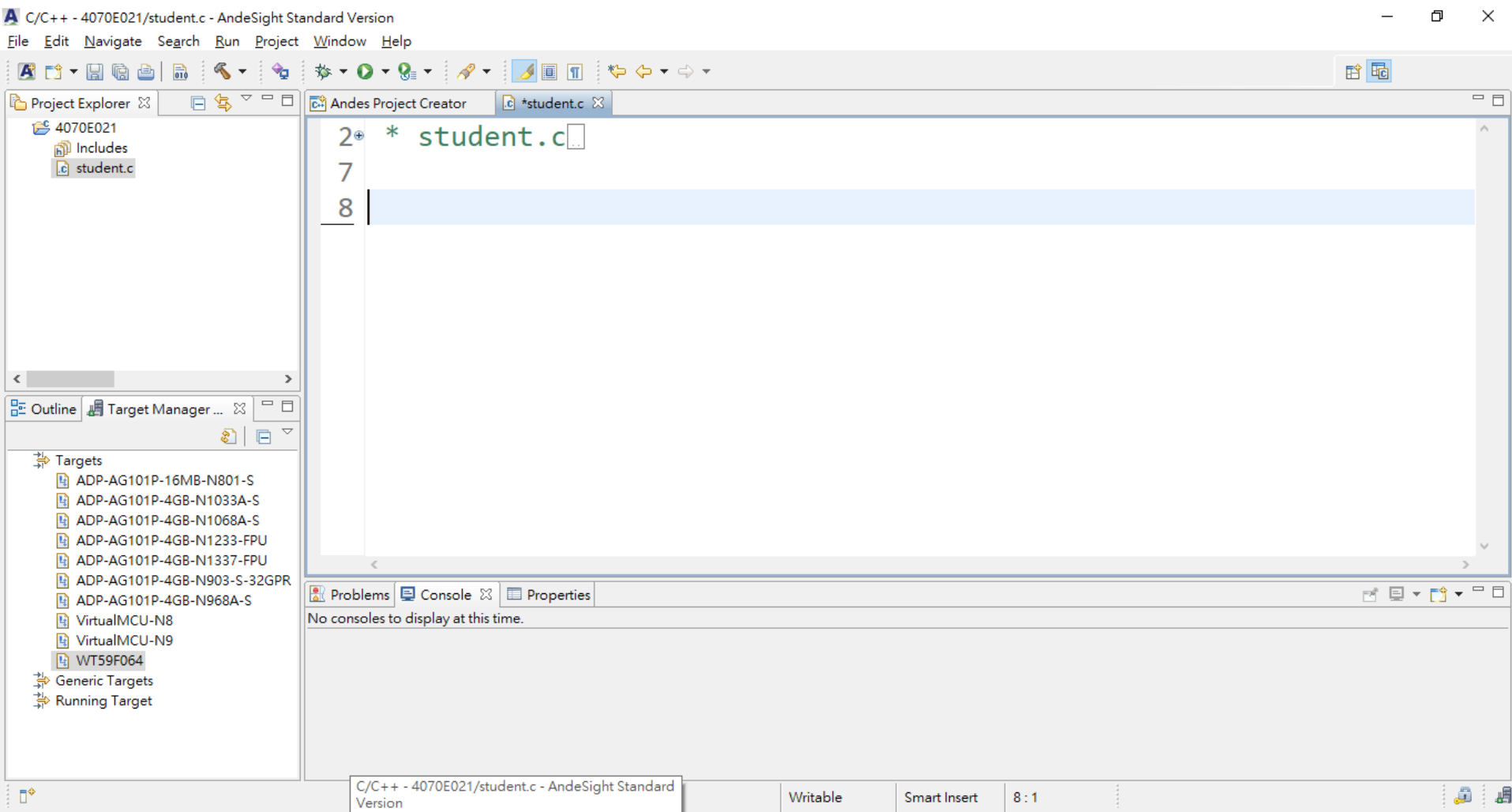
專案即出現在瀏覽視窗



3. 在專案按右鍵-點選New/Source file
4. 輸入程式檔名稱(.c),按Finish



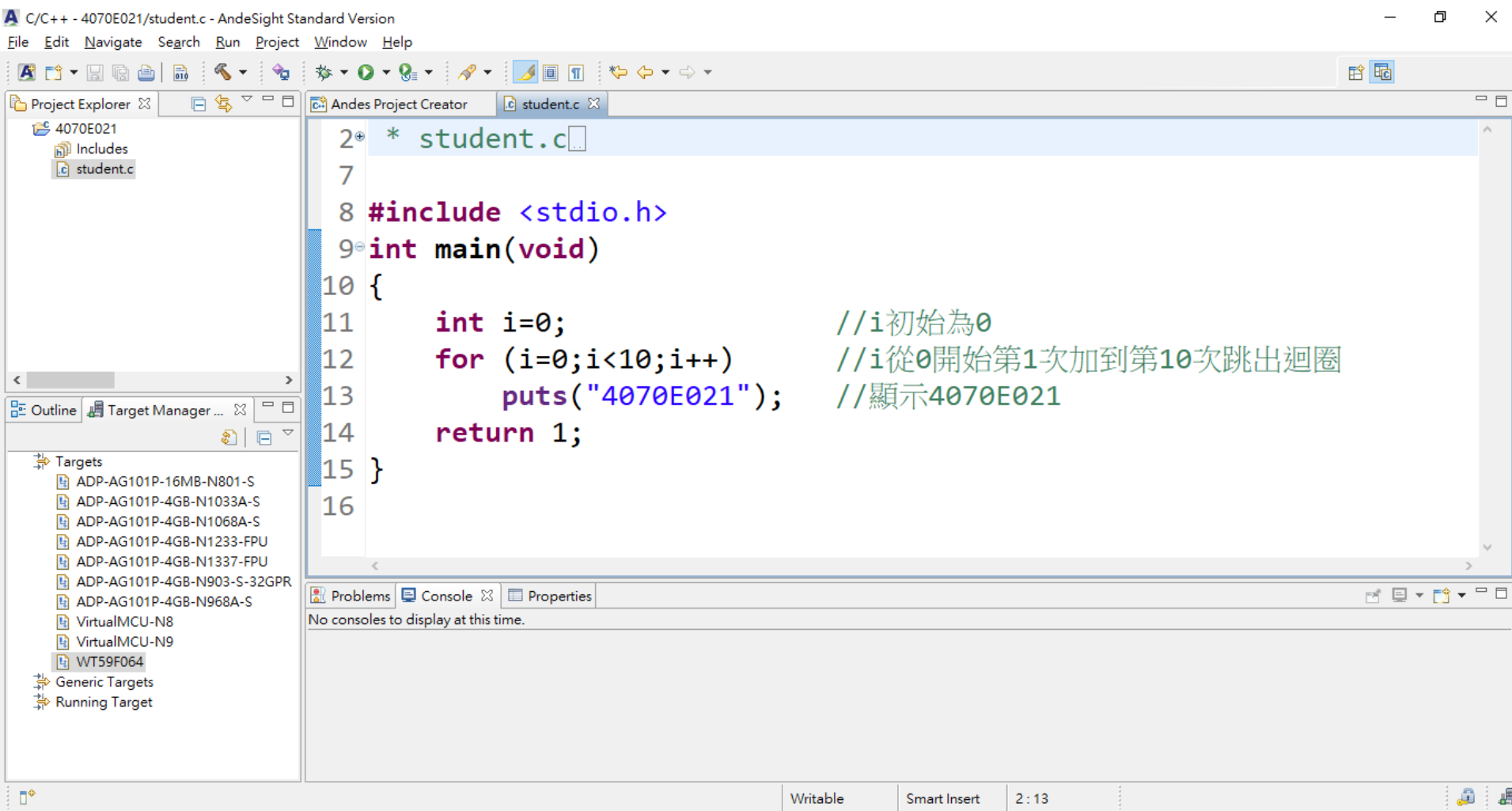
5.開始編輯程式



四、ANDESIGHT IDE專案實作

列印出你的學號10行

1.編輯程式-結果顯示自己學號10次



2.編譯程式

C/C++ - 4070E021/student.c - AndeSight Standard Version

File Edit Navigate Search Run Project Window Help

Project Explorer

- 4070E021
 - Binaries
 - Includes
 - Debug
 - student.c

Outline Target Manager ...

Targets

- ADP-AG101P-16MB-N801-S
- ADP-AG101P-4GB-N1033A-S
- ADP-AG101P-4GB-N1068A-S
- ADP-AG101P-4GB-N1233-FPU
- ADP-AG101P-4GB-N1337-FPU
- ADP-AG101P-4GB-N903-S-32GPR
- ADP-AG101P-4GB-N968A-S
- VirtualMCU-N8
- VirtualMCU-N9
- WT59F064
- Generic Targets
- Running Target

Andes Project Creator student.c

```
2+ * student.c
7
8 #include <stdio.h>
9 int main(void)
10 {
11     int i=0; //i初始為0
12     for (i=0;i<10;i++) //i從0開始第1次加到第10次跳出迴圈
13         puts("4070E021"); //顯示4070E021
14     return 1;
15 }
16
```

Problems Console Properties

CDT Build Console [4070E021]

```
nds32le-elf-size "4070E021.adx"
text data bss dec hex filename
8808 2136 52 10996 2af4 4070E021.adx
Finished building: .PHONY.size

**** Build Finished ****
```

3.Run結果：4070E021 十次

