

JAVA JDK 安裝和設定步驟

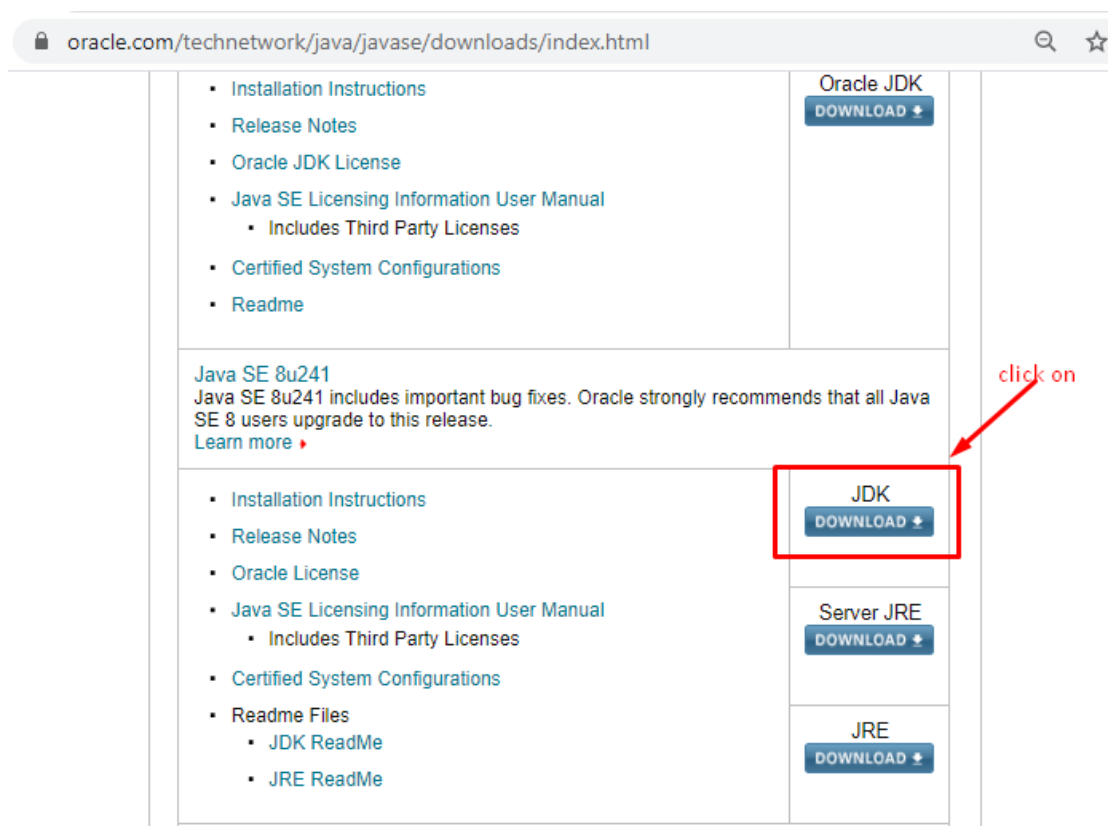
02/Sep/2018

1. 下載所須的相關軟體

(例如 在 d 碟建一目錄 d:\downloads , 然後將下載的檔案存放於此目錄下)

google “JDK”

(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)



<https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

JDK 8u241 checksum

Java SE Development Kit 8u241

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Linux ARM 32 Hard Float ABI	72.94 MB	jdk-8u241-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.83 MB	jdk-8u241-linux-arm64-vfp-hflt.tar.gz
Linux x86	171.28 MB	jdk-8u241-linux-i586.rpm
Linux x86	186.1 MB	jdk-8u241-linux-i586.tar.gz
Linux x64	170.65 MB	jdk-8u241-linux-x64.rpm
Linux x64	185.53 MB	jdk-8u241-linux-x64.tar.gz
Mac OS X x64	254.06 MB	jdk-8u241-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	133.01 MB	jdk-8u241-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.24 MB	jdk-8u241-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	133.8 MB	jdk-8u241-solaris-x64.tar.Z
Solaris x64	92.01 MB	jdk-8u241-solaris-x64.tar.gz
Windows x86	200.86 MB	jdk-8u241-windows-i586.exe
Windows x64	210.92 MB	jdk-8u241-windows-x64.exe

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Linux x86	56.42 MB	jdk-8u241-linux-i586-demos.rpm
Linux x86	56.28 MB	jdk-8u241-linux-i586-demos.tar.gz
Linux x64	56.53 MB	jdk-8u241-linux-x64-demos.rpm
Linux x64	56.36 MB	jdk-8u241-linux-x64-demos.tar.gz
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Solaris SPARC 64-bit	8.47 MB	jdk-8u241-solaris-sparcv9-demos.tar.gz
Solaris x64	12.21 MB	jdk-8u241-solaris-x64-demos.tar.Z
Solaris x64	8.44 MB	jdk-8u241-solaris-x64-demos.tar.gz
Windows x86	57.26 MB	jdk-8u241-windows-i586-demos.zip
Windows x64	57.28 MB	jdk-8u241-windows-x64-demos.zip

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使用者名稱

mcl@mail.shu.edu.tw

密碼

.....

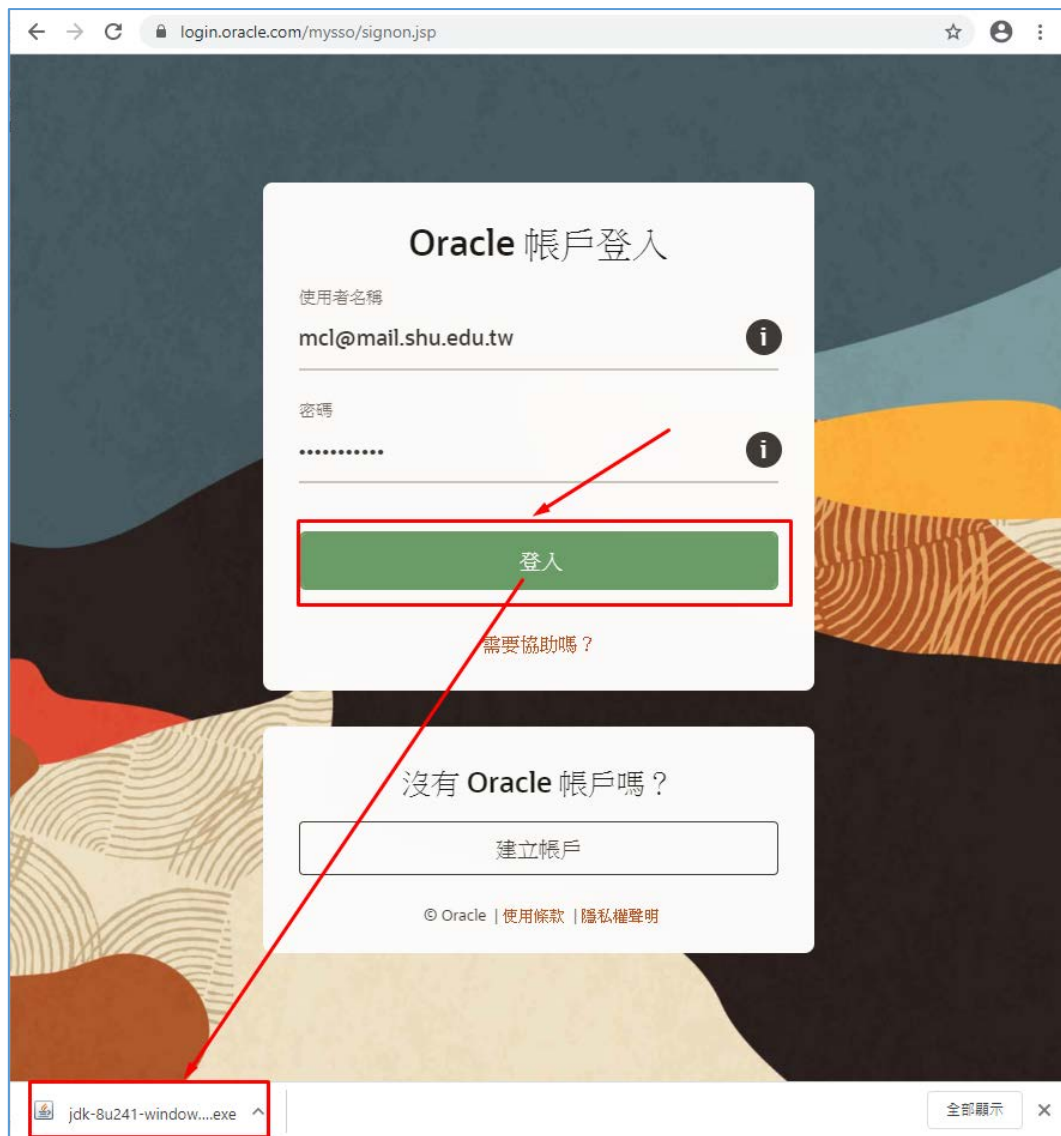
登入

需要協助嗎？

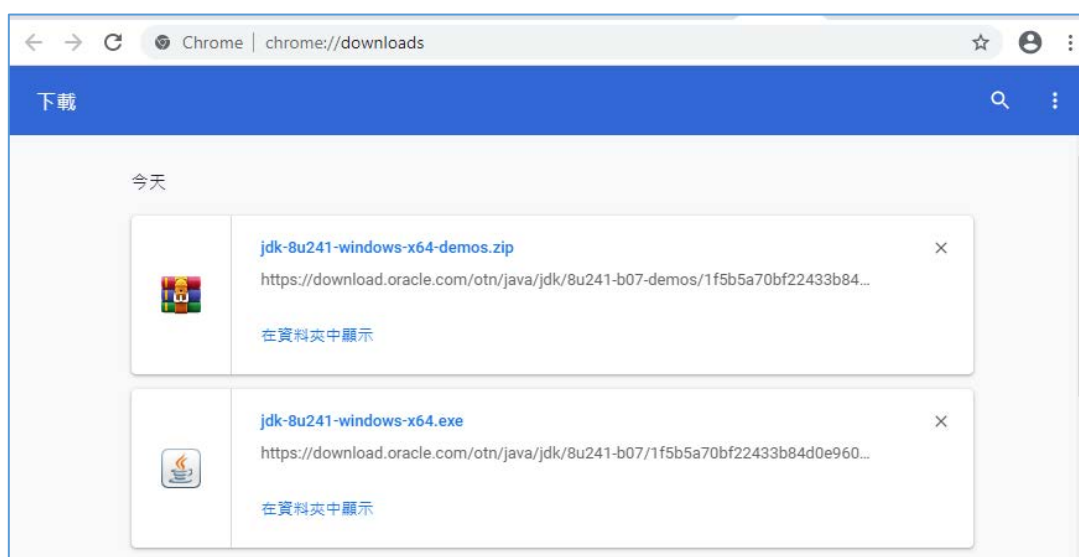
沒有 Oracle 帳戶嗎？

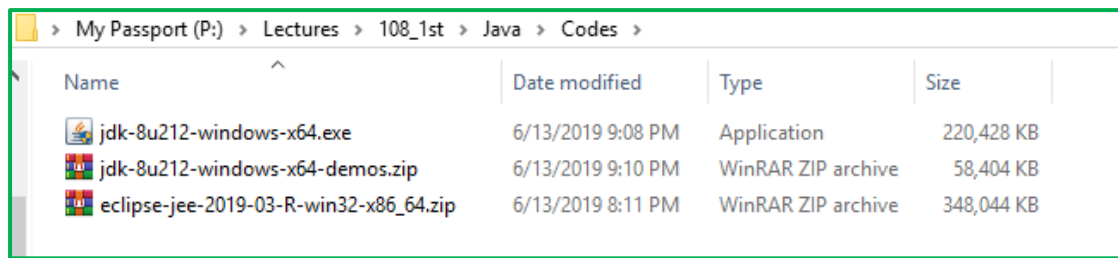
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After downloaded 2 files:





Name	Date modified	Type	Size
jdk-8u212-windows-x64.exe	6/13/2019 9:08 PM	Application	220,428 KB
jdk-8u212-windows-x64-demos.zip	6/13/2019 9:10 PM	WinRAR ZIP archive	58,404 KB
eclipse-jee-2019-03-R-win32-x86_64.zip	6/13/2019 8:11 PM	WinRAR ZIP archive	348,044 KB

圖 1-1 下載的 JDK 相關檔案。

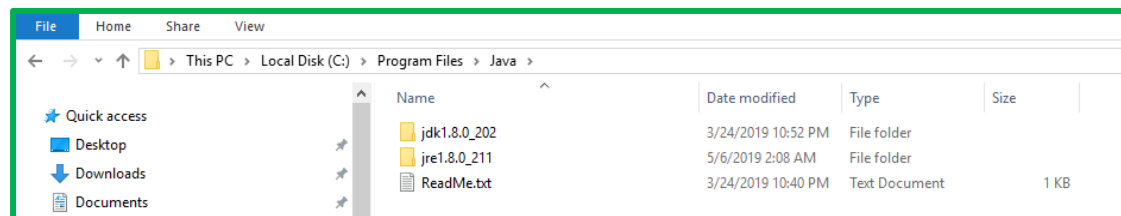
Here: JDK: jdk-8u212-windows-x64.exe

2. 安裝軟體:

請依次序安裝,如果是 Default(默認的)目錄一般就會為:

JDK → **C:\Program Files\Java\jdk1.8.0_212** (also “C:\Program Files\Java\jre1.8.0_212”也會被安裝)

Note: 假設你要安裝在其它的 Local Disk 下, 也可以。



Name	Date modified	Type	Size
jdk1.8.0_202	3/24/2019 10:52 PM	File folder	
jre1.8.0_211	5/6/2019 2:08 AM	File folder	
ReadMe.txt	3/24/2019 10:40 PM	Text Document	1 KB

圖 2-1 JDK 安裝的 Default(默認的)目錄。

2.1 安裝 JDK: (**C:\Program Files\Java\jdk1.8.0_212**)

(1) 首先 Google “JDK”→下載 Java Platform (JDK) 8u212 (下載頁面為) :

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Note:建議也 Download JDK 的 Demos and Samples (File of Demos and Samples) (在此為 jdk-8u212-windows-x64-demos.zip)。

https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

Windows x86 57.01 MB [jdk-8u211-windows-i586-demos.zip](#)
Windows x64 57.03 MB [jdk-8u211-windows-x64-demos.zip](#)

Java SE Development Kit 8u212

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Linux ARM 32 Hard Float ABI	72.86 MB	jdk-8u212-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.77 MB	jdk-8u212-linux-arm64-vfp-hflt.tar.gz
Linux x86	174.11 MB	jdk-8u212-linux-i586.rpm
Linux x86	188.92 MB	jdk-8u212-linux-i586.tar.gz
Linux x64	171.13 MB	jdk-8u212-linux-x64.rpm
Linux x64	185.98 MB	jdk-8u212-linux-x64.tar.gz
Mac OS X x64	252.25 MB	jdk-8u212-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	125.06 MB	jdk-8u212-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	88.15 MB	jdk-8u212-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	124.3 MB	jdk-8u212-solaris-x64.tar.Z
Solaris x64	85.41 MB	jdk-8u212-solaris-x64.tar.gz
Windows x86	202.64 MB	jdk-8u212-windows-i586.exe
Windows x64	215.26 MB	jdk-8u212-windows-x64.exe

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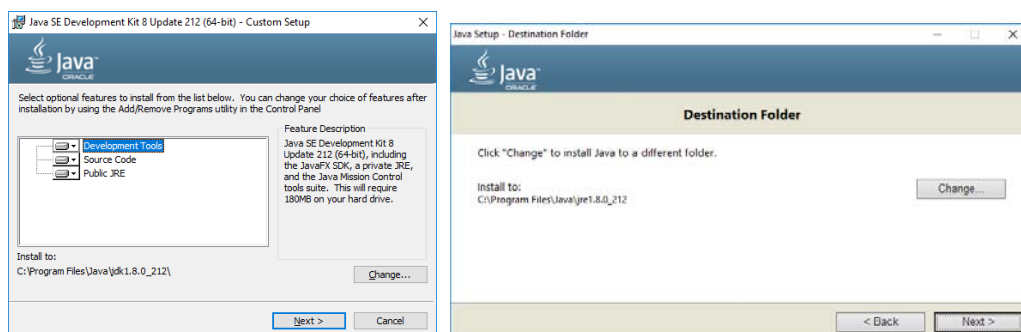
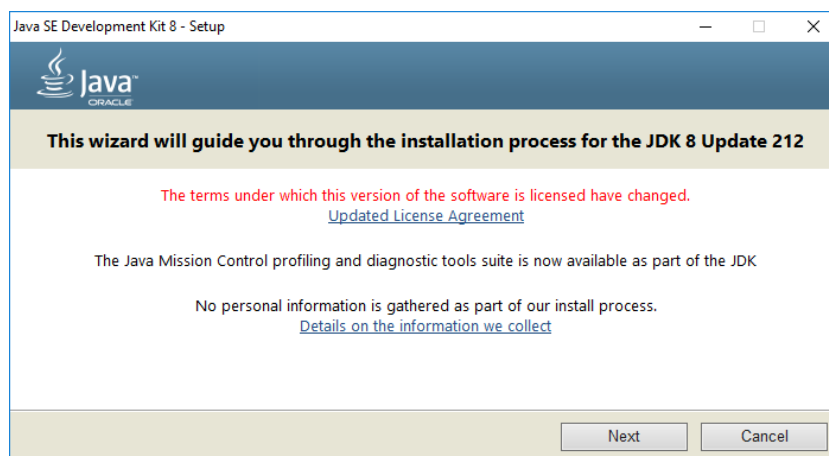
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Linux ARM 32 Hard Float ABI	9.07 MB	jdk-8u212-linux-arm32-vfp-hflt-demos.tar.gz
Linux ARM 64 Hard Float ABI	9.07 MB	jdk-8u212-linux-arm64-vfp-hflt-demos.tar.gz
Linux x86	56.18 MB	jdk-8u212-linux-i586-demos.rpm
Linux x86	56.04 MB	jdk-8u212-linux-i586-demos.tar.gz
Linux x64	56.27 MB	jdk-8u212-linux-x64-demos.rpm
Linux x64	56.12 MB	jdk-8u212-linux-x64-demos.tar.gz
Mac OS X	56.3 MB	jdk-8u212-macosx-x86_64-demos.zip
Solaris SPARC 64-bit	12.24 MB	jdk-8u212-solaris-sparcv9-demos.tar.Z
Solaris SPARC 64-bit	8.44 MB	jdk-8u212-solaris-sparcv9-demos.tar.gz
Solaris x64	12.3 MB	jdk-8u212-solaris-x64-demos.tar.Z
Solaris x64	8.44 MB	jdk-8u212-solaris-x64-demos.tar.gz
Windows x86	57.01 MB	jdk-8u212-windows-i586-demos.zip
Windows x64	57.03 MB	jdk-8u212-windows-x64-demos.zip

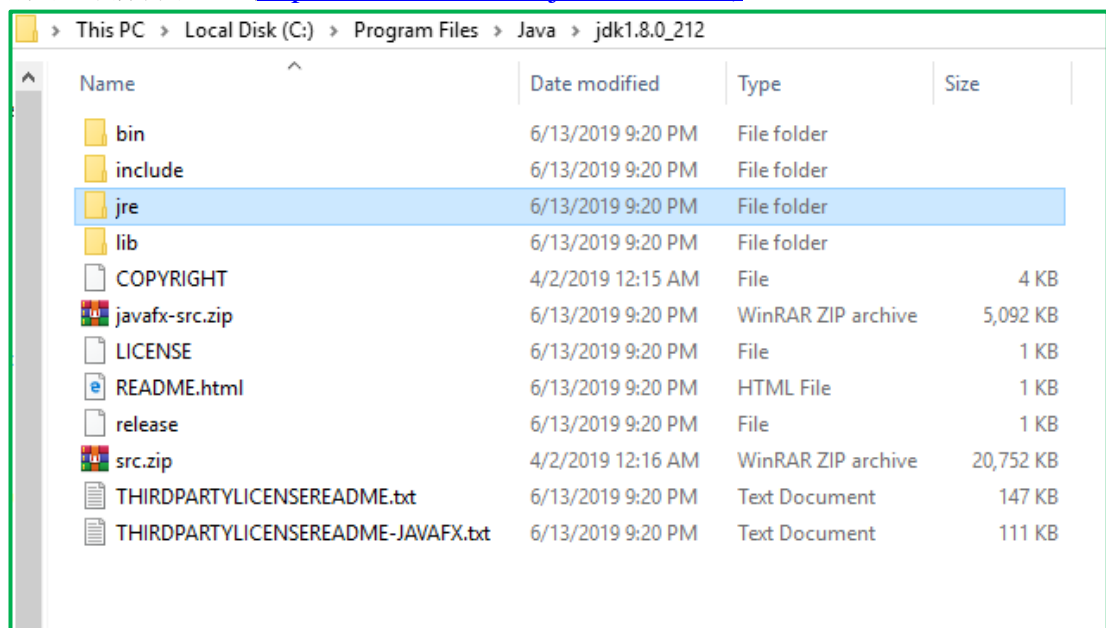
[E-mail this page](#) [Printer View](#)

圖 2-2 Java Platform (JDK)的下載頁面。





- (2) 然後運行 **jdk1.8.0_212** 安裝程式 **C:\Program Files\Java\jdk1.8.0_212**。安裝過程中所有選項保持默認；(<http://docs.oracle.com/javase/8/docs/>)



(3)

將 “jdk-8u212-windows-x64-demos.zip”加以解壓縮之後；

→將 “jdk-8u212-windows-x64-demos\jdk1.8.0_212” 下的所有檔案 COPY 後；

→再 PASTE 到“C:\Program Files\Java\jdk1.8.0_212”下；

如下面所有圖示：

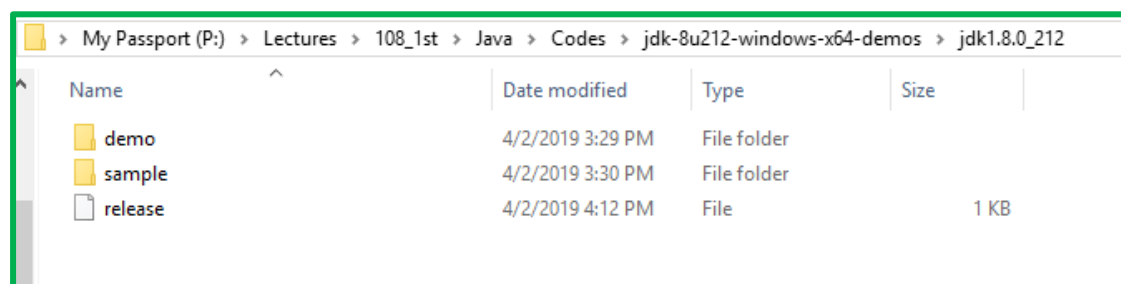


圖 2-3 JDK 的 Demos and Samples 內容。

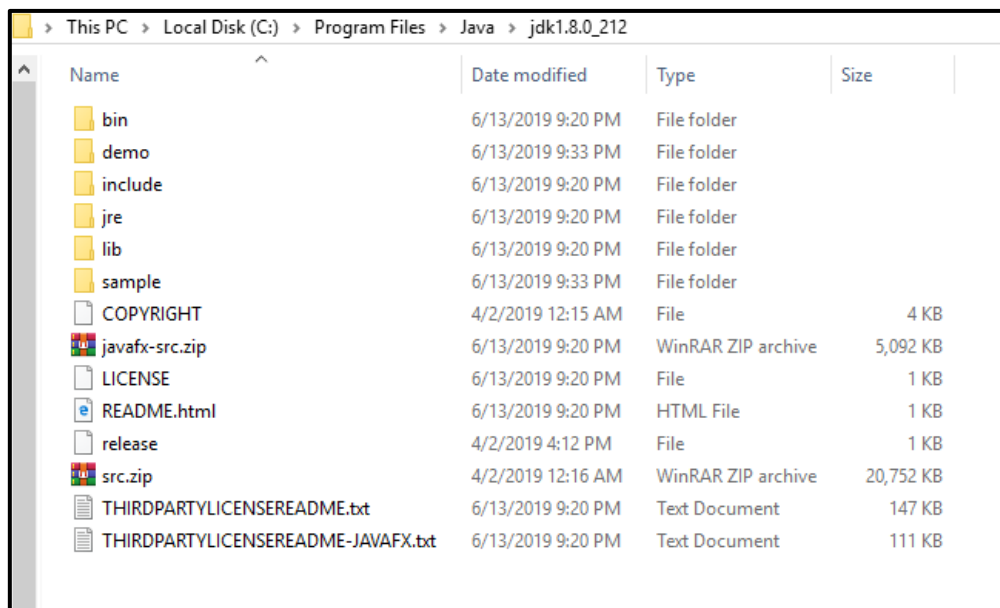


圖 2-4 JDK 安裝之後的內容。

如前所述，請依次序安裝,如果是 Default(默認的)目錄一般就會為:

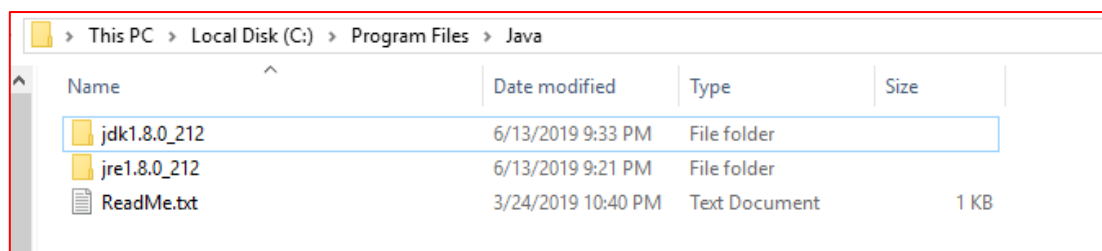


圖 2-5 JDK 和 JRE 安裝只後的 Default(默認的)目錄。

JDK → **C:\Program Files\Java\jdk1.8.0_212** (also “C:\Program Files\Java\jre1.8.0_212”也會被安裝)

Note：假設你要安裝在其它的 Local Disk 下，也可以。

2.2 最後配置 JDK 的環境變數

首先：

- 在“我的電腦”上點 Mouse 右鍵 → “內容” → “進階” → “環境變數(N)”；
- 或者選擇：“開始” → “我的電腦” → “檢視系統資訊” → “進階” → “環境變數(N)”；
- 或者選擇：“開始” → “控制臺” → “系統” → “進階” → “環境變數(N)”。

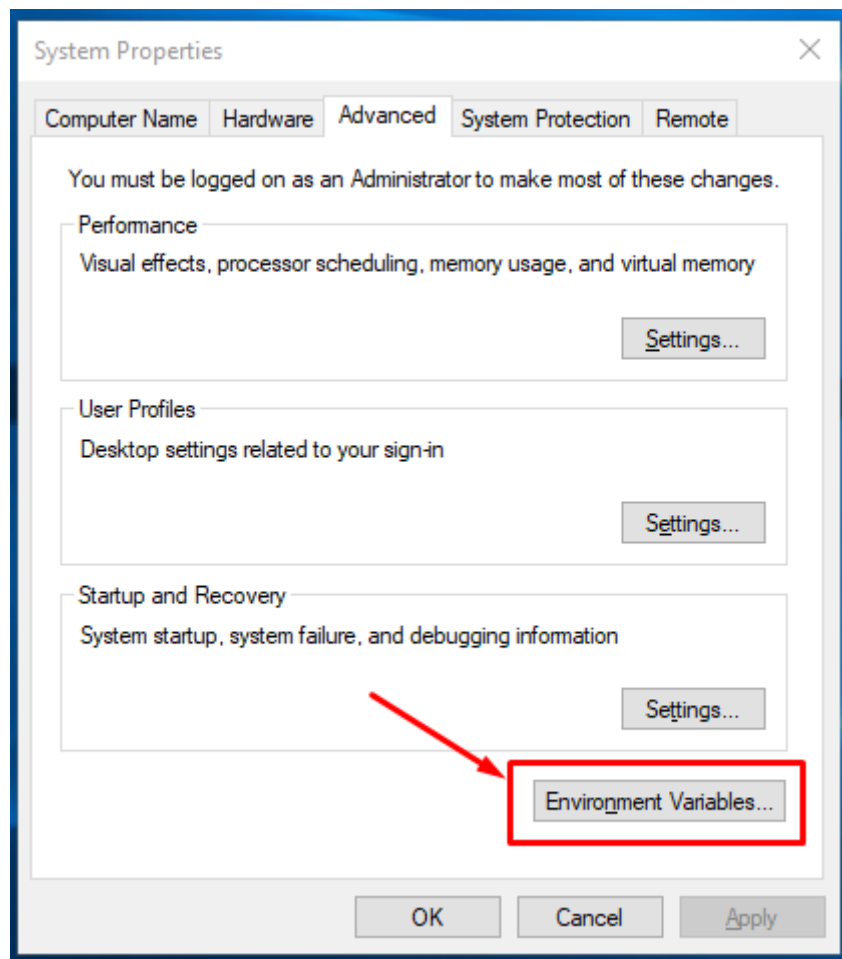
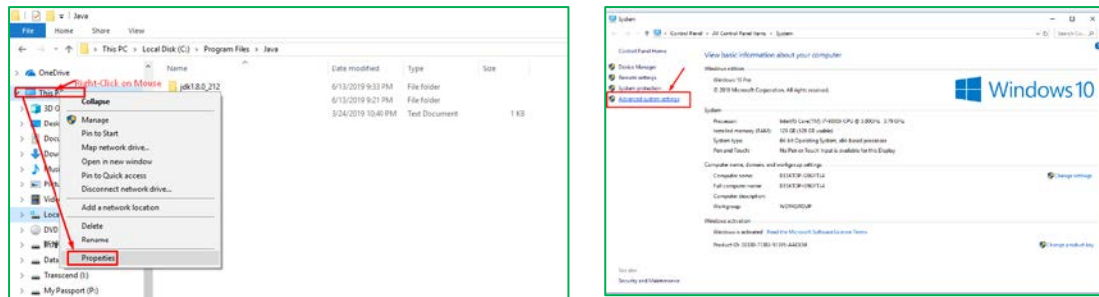
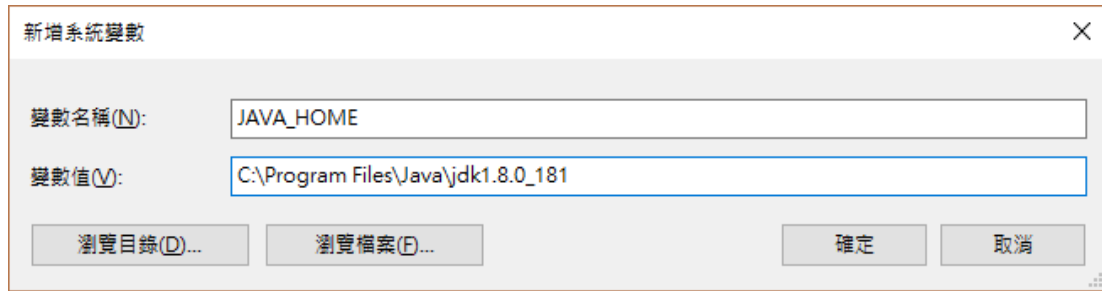


圖 2-6 尋找配置 JDK 的環境變數的路徑流程。

然後：

- (1) 新增或 Edit 一系統變數“**JAVA_HOME**”,其值為 “**C:\Program Files\Java\jdk1.8.0_212**” (不含引號,下同)。(然後按“確定”)



(above was added before Now needed to edit as below:)

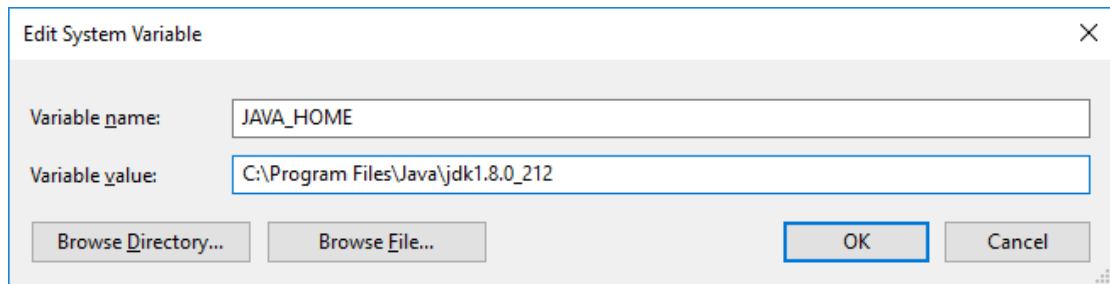


圖 2-7 新增或 Edit 系統變數“**JAVA_HOME**”。

- (2) 新建系統變數 **CLASSPATH**： “**.;%JAVA_HOME%\lib**”；或 “**.;C:\Program Files\Java\jdk1.8.0_202\lib**”；（注意：點號表示當前目錄，不能省略）

Note: 建議在此的 **CLASSPATH** 採用“**.;%JAVA_HOME%\lib**”。如此之下，才可以免掉將來環境系統變數需要做重新編輯和修正時，很多不必要的麻煩。

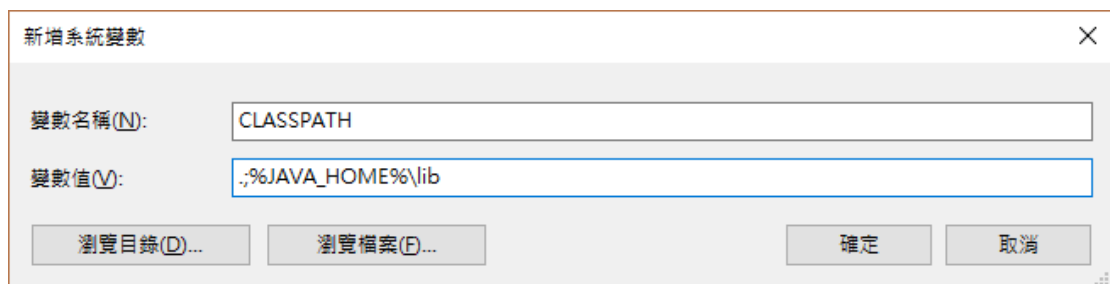
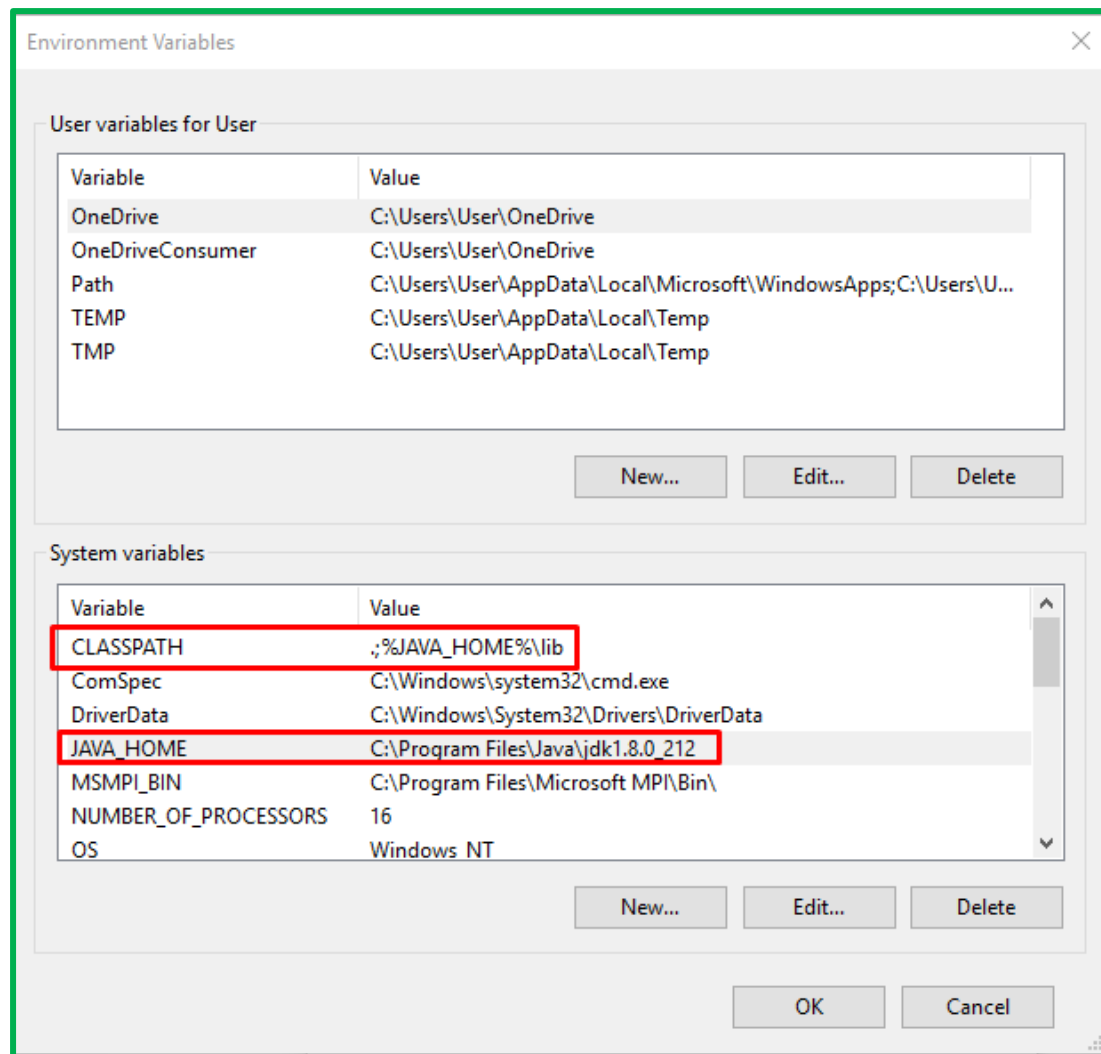


圖 2-8 新建系統變數 **CLASSPATH**。



(3) 請在系統變數找到 **PATH(或 Path)**選“編輯”，然後在『“其中”或者其“最後面”』加入“;”後，再接著加入以下內容：“**%JAVA_HOME%\bin**”；或“**C:\Program Files\Java\jdk1.8.0_212\bin**”; (注意:這裏的分號不能省略；)

Note: 類似於上述有關 **CLASSPATH** 的做法，建議在此的 **PATH** 內容最好採用“**%JAVA_HOME%\bin**”。如此之下，才可以免掉將來環境系統變數需要做重新編輯和修正時，很多不必要的麻煩。

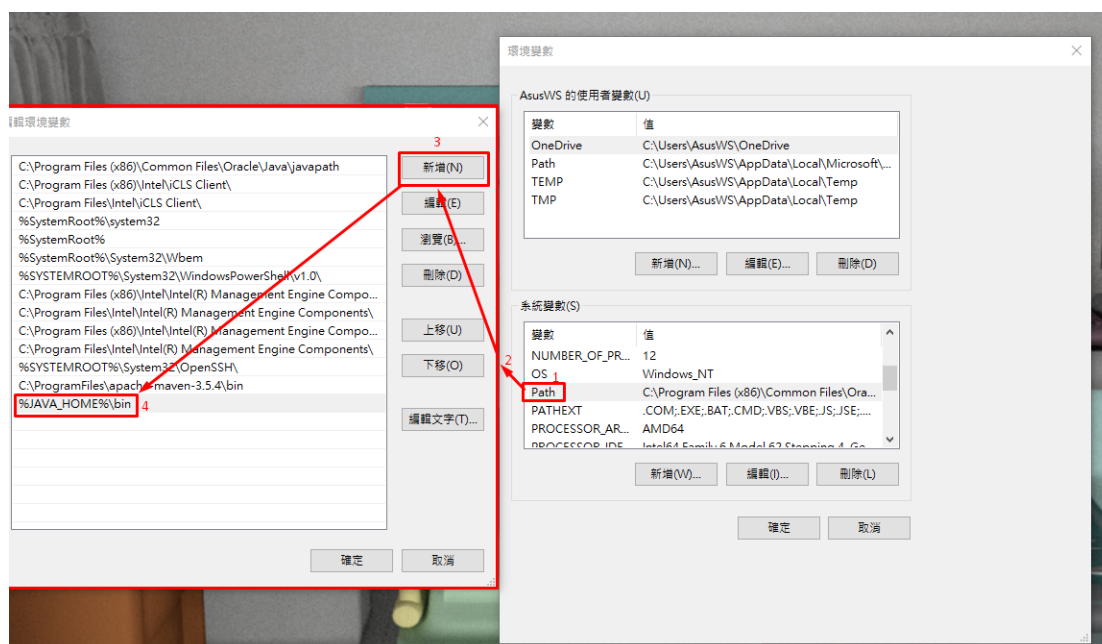
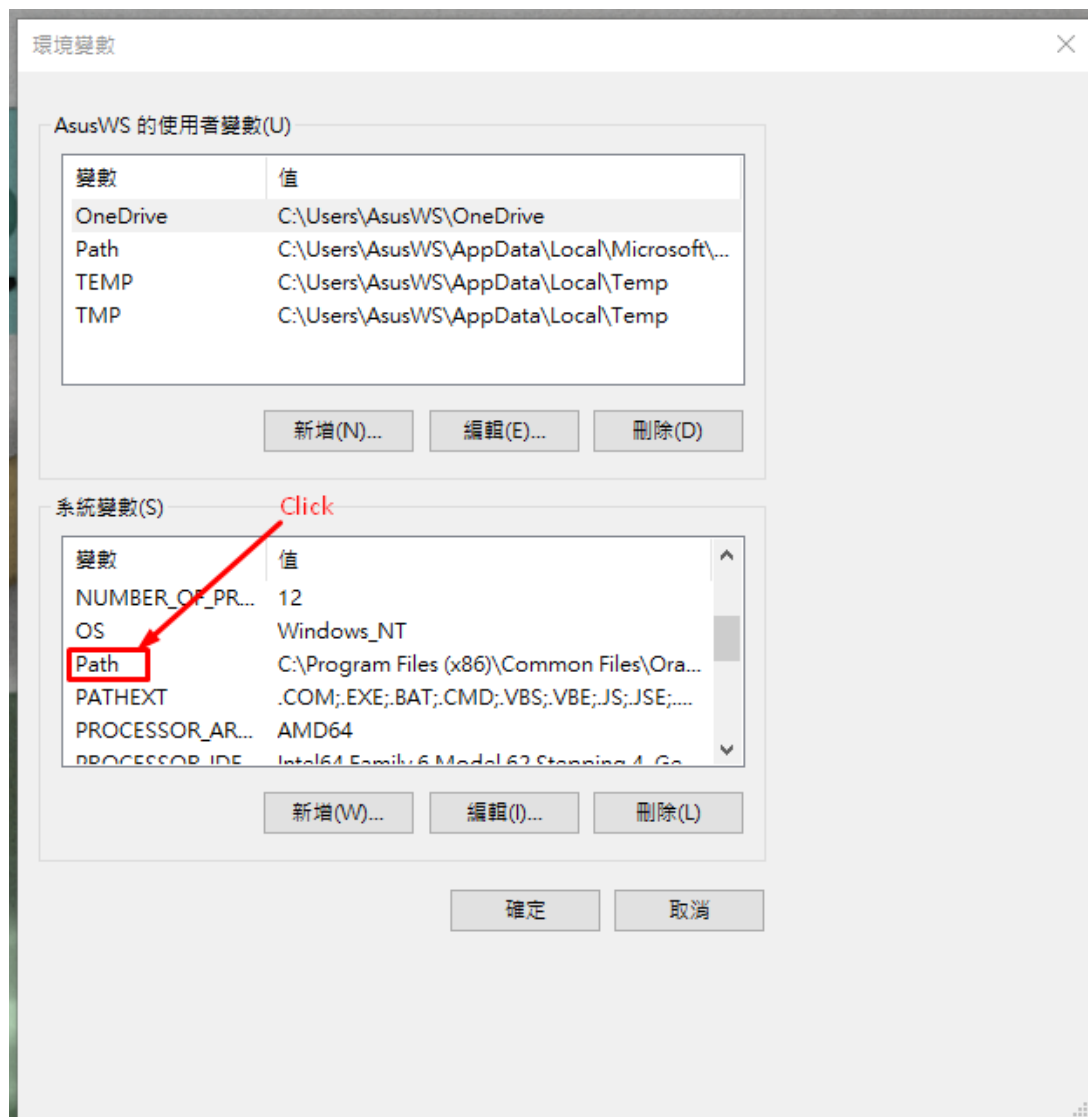


圖 2-9 編輯 PATH(或 Path)系統變數：加入“%JAVA_HOME%\bin”。

JDK 環境設定完成了。完成安裝後，不同的系統可能會要求重新開機,請重新開機完成設定。為了確保 JDK 可正常運作,請依以下的步驟,檢查相關設定。

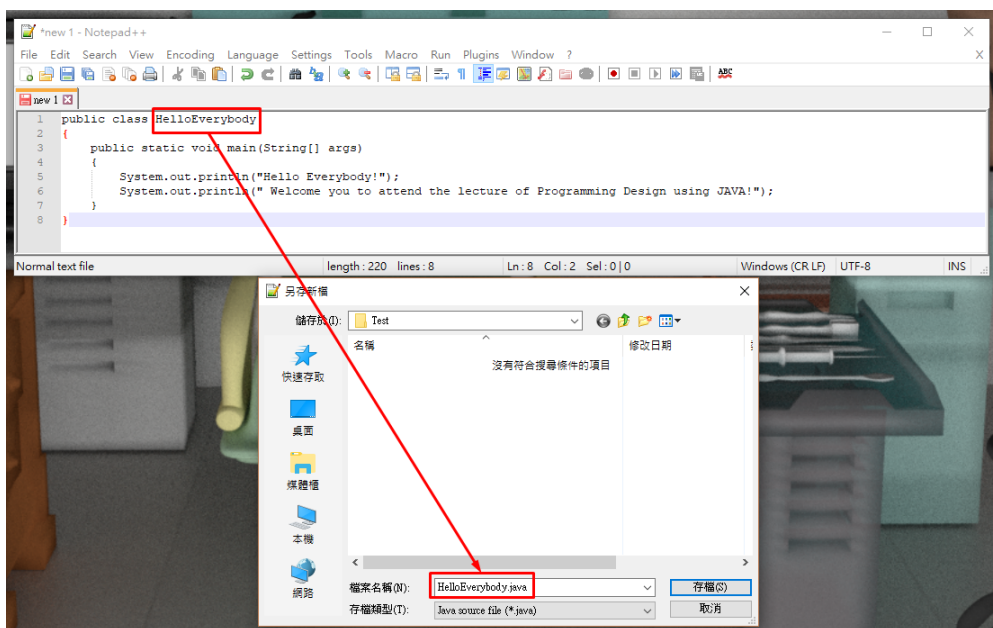
3. 測試 JDK 是否安裝成功

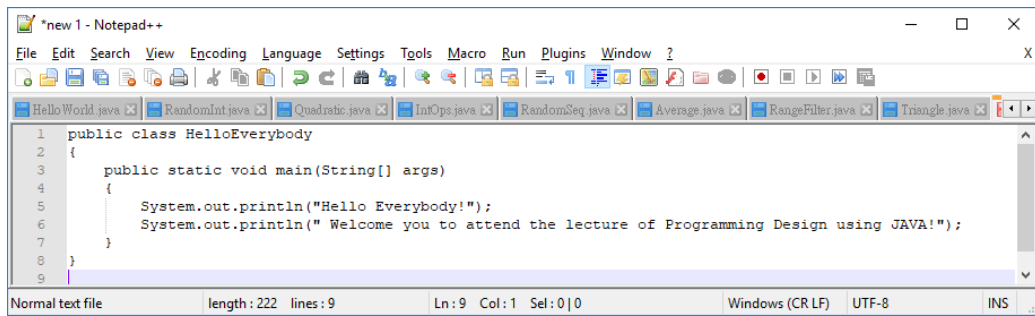
下面為了測試一下 JDK 是否安裝成功，將以下內容複製到記事本中：

表 3-1 測試 JDK 是否安裝成功的 Java 測試程式內容。

```
public class HelloEverybody
{
    public static void main(String[] args)
    {
        System.out.println("Hello Everybody!");
        System.out.println(" Welcome you to attend the lecture of Programming Design using JAVA!");
    }
}
```

並將其另存為“HelloEverybody.java”（不含引號，下同）；例如假設將其保存到 G 盤的“P:\Lectures\108_1st\Java\Test”目錄下；當然也不妨考慮保存到 C 或 E 盤或... (Anyway, it's your choice. **You are the boss!**)。





```
1 public class HelloEverybody
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Hello Everybody!");
6         System.out.println(" Welcome you to attend the lecture of Programming Design using JAVA!");
7     }
8 }
9
```

Normal text file length: 222 lines: 9 Ln: 9 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS

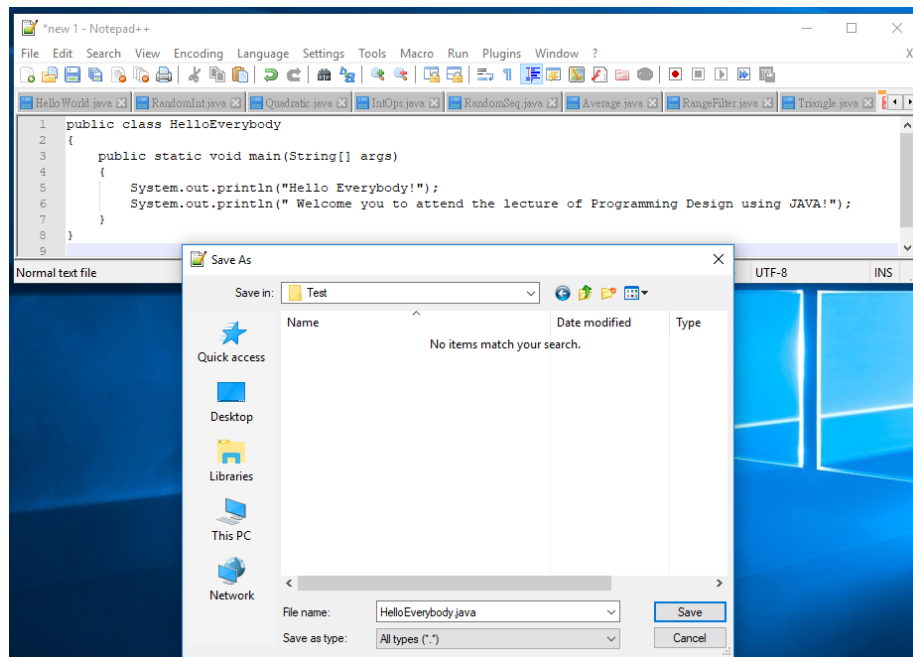
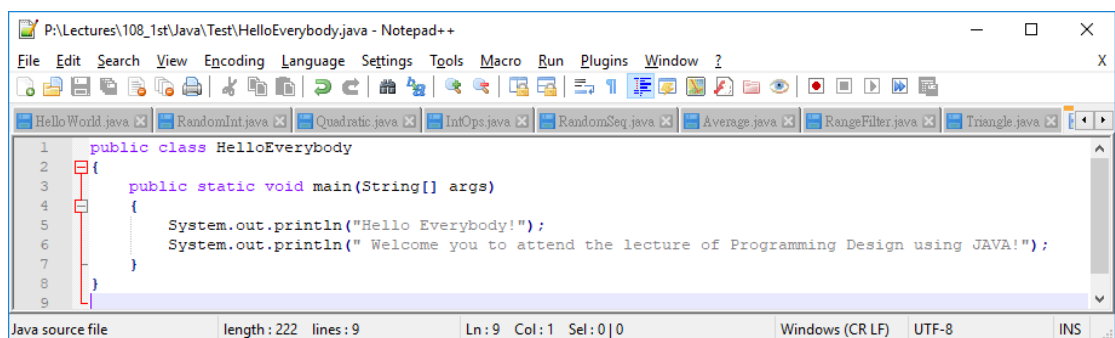


圖 3-1 撰寫 Java 測試檔以測試 JDK 是否安裝成功。

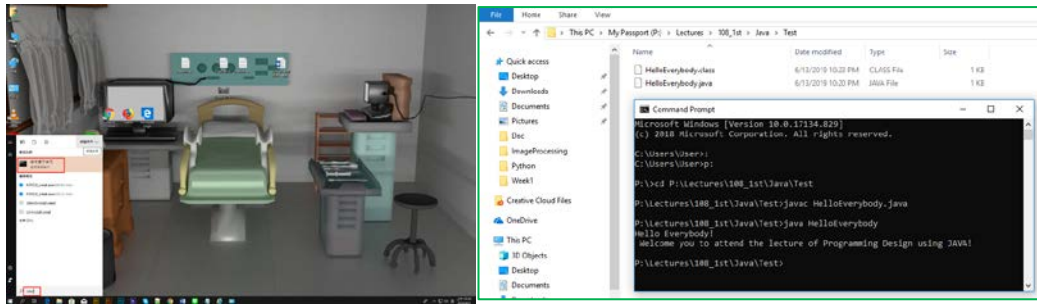


```
1 public class HelloEverybody
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Hello Everybody!");
6         System.out.println(" Welcome you to attend the lecture of Programming Design using JAVA!");
7     }
8 }
9
```

Java source file length: 222 lines: 9 Ln: 9 Col: 1 Sel: 0 | 0 Windows (CR LF) UTF-8 INS

然後，根據檔案所儲存的位置，呼叫運行 DOS 應用程式，然後在“命令行”(cmd)依次輸入下表或下圖中所下的指令。

表 3-1 在“命令行”(cmd)下運行 Java 測試程式(Windows 10)的 Procedure 和結果內容。



Microsoft Windows [Version 10.0.17134.829]

(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\User>p:

P:\>cd P:\Lectures\108_1st\Java\Test

P:\Lectures\108_1st\Java\Test>javac HelloEverybody.java

P:\Lectures\108_1st\Java\Test>java HelloEverybody

Hello Everybody!

Welcome you to attend the lecture of Programming Design using JAVA!

P:\Lectures\108_1st\Java\Test>

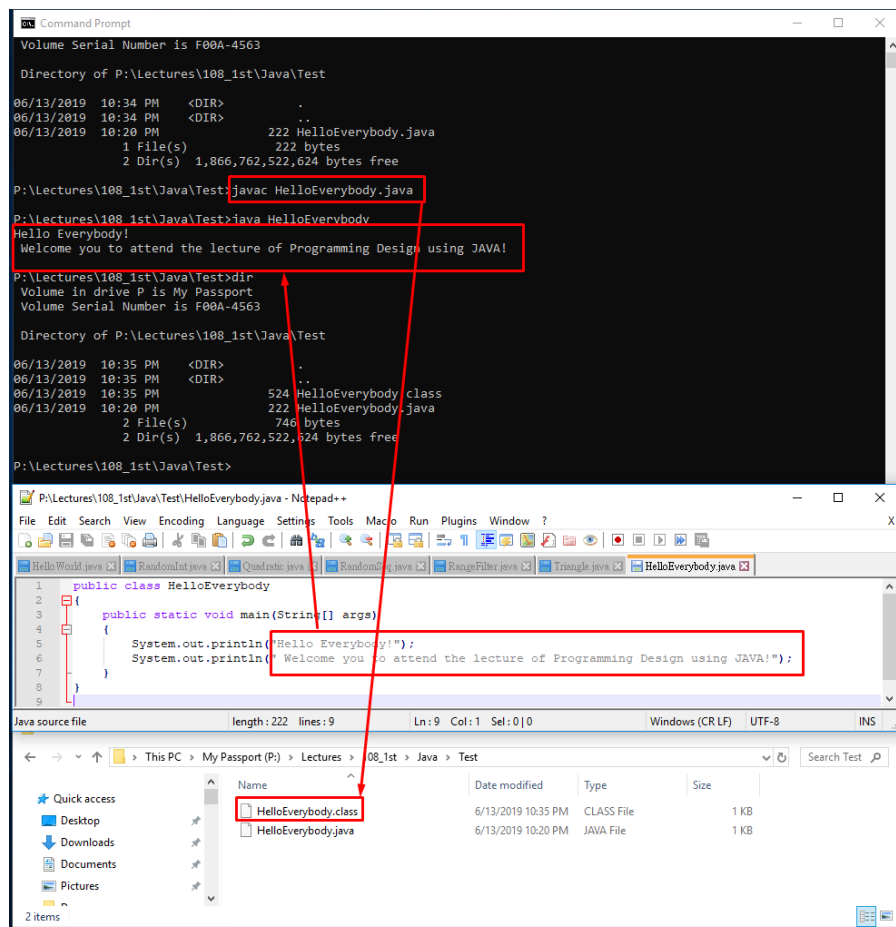


圖 3-2 在“命令行”(cmd)下運行 Java 測試程式(Windows 10)。

最後，如果出現上圖紅框中所標注的內容，則說明 JDK 的安裝和設定成功！

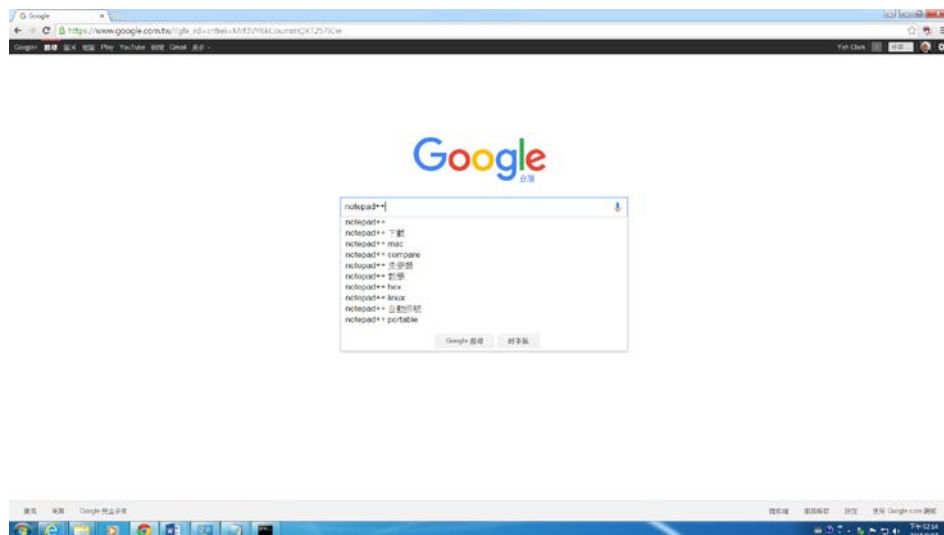
4. 注意

如果以後要安裝諸如 Eclipse, NetBean, 或 Borland JBuilder...等等集成開發環境(IDE, Integrated Development Environment), 應該在 IDE 中編譯運行一個簡單的類似上述 HelloEverybody 的程式, 以保證 IDE 可以識別出 JDK 的位置。

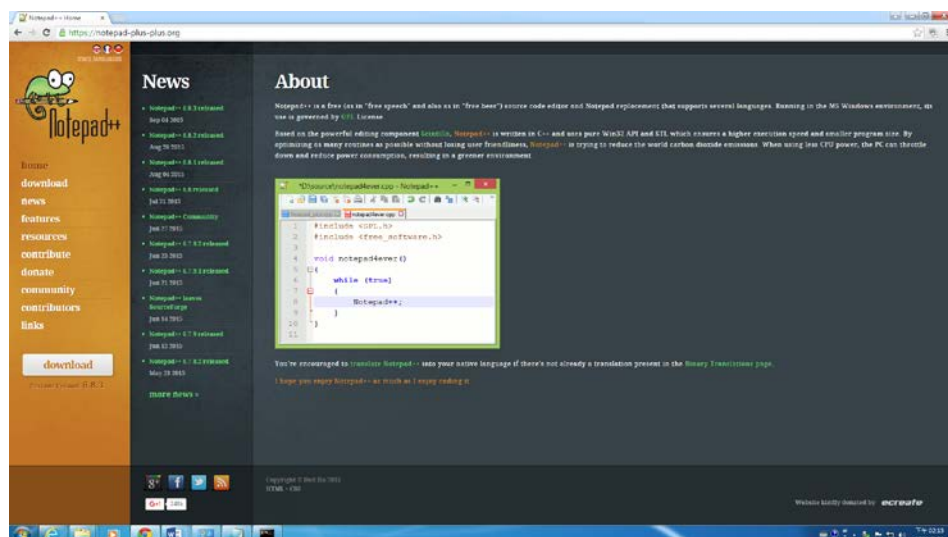
到此，終於完成 **JAVA** 的安裝與測試。

真的終於 哈哈 可以鬆一口氣了。

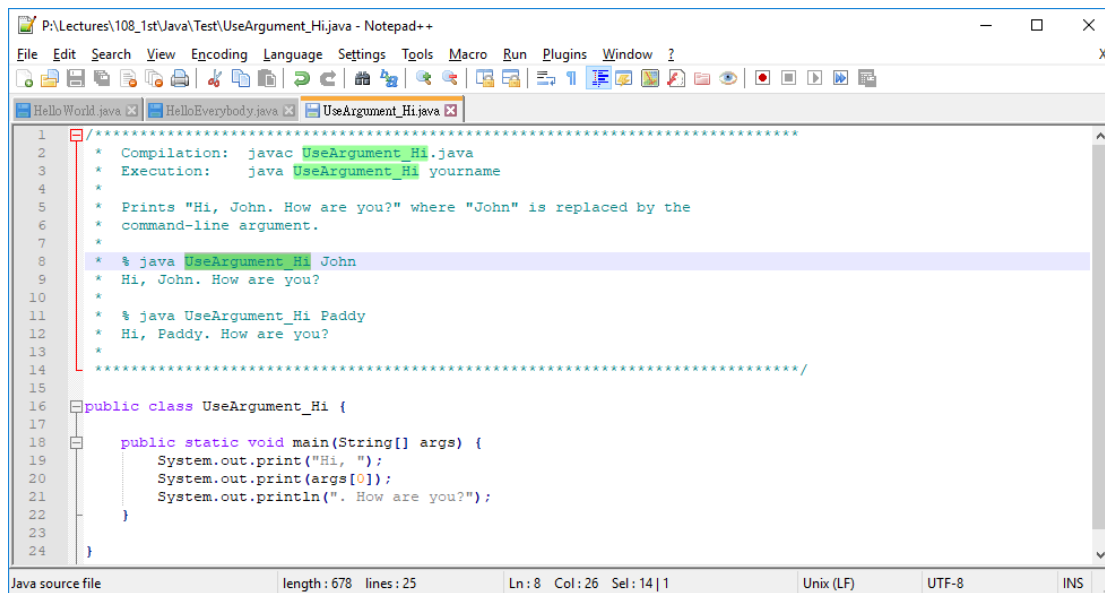
Text Editor: Notepad++



<https://notepad-plus-plus.org/>



More Test



```
1  /*****
2  * Compilation:  javac UseArgument_Hi.java
3  * Execution:   java UseArgument_Hi yourname
4  *
5  * Prints "Hi, John. How are you?" where "John" is replaced by the
6  * command-line argument.
7  *
8  * % java UseArgument_Hi John
9  * Hi, John. How are you?
10 *
11 * % java UseArgument_Hi Paddy
12 * Hi, Paddy. How are you?
13 *
14 *****/
15
16 public class UseArgument_Hi {
17
18     public static void main(String[] args) {
19         System.out.print("Hi, ");
20         System.out.print(args[0]);
21         System.out.println(". How are you?");
22     }
23
24 }
```

Java source file length: 678 lines: 25 Ln: 8 Col: 26 Sel: 14 | 1 Unix (LF) UTF-8 INS

```
/* **** */
*   Compilation:  javac UseArgument_Hi.java
*   Execution:   java UseArgument_Hi yourname
*
*   Prints "Hi, John. How are you?" where "John" is replaced by the
*   command-line argument.
*
*   % java UseArgument_Hi John
*   Hi, John. How are you?
*
*   % java UseArgument_Hi Paddy
*   Hi, Paddy. How are you?
*
* **** */

public class UseArgument_Hi {

    public static void main(String[] args) {
        System.out.print("Hi, ");
        System.out.print(args[0]);
        System.out.println(". How are you?");
    }

}
```

```
Command Prompt
C:\Users\User>P:
P:\>cd P:\Lectures\108_1st\Java\Test
P:\Lectures\108_1st\Java\Test>dir
Volume in drive P is My Passport
Volume Serial Number is F00A-4563

Directory of P:\Lectures\108_1st\Java\Test

06/13/2019  10:34 PM  <DIR>          .
06/13/2019  10:34 PM  <DIR>          ..
06/13/2019  10:20 PM                222 HelloEverybody.java
               1 File(s)                222 bytes
               2 Dir(s)  1,866,762,522,624 bytes free

P:\Lectures\108_1st\Java\Test>javac HelloEverybody.java
P:\Lectures\108_1st\Java\Test>java HelloEverybody
Hello Everybody!
Welcome you to attend the lecture of Programming Design using JAVA!

P:\Lectures\108_1st\Java\Test>dir
Volume in drive P is My Passport
Volume Serial Number is F00A-4563

Directory of P:\Lectures\108_1st\Java\Test

06/13/2019  10:35 PM  <DIR>          .
06/13/2019  10:35 PM  <DIR>          ..
06/13/2019  10:35 PM                524 HelloEverybody.class
06/13/2019  10:20 PM                222 HelloEverybody.java
               2 File(s)                746 bytes
               2 Dir(s)  1,866,762,522,624 bytes free

P:\Lectures\108_1st\Java\Test>javac UseArgument_Hi.java
P:\Lectures\108_1st\Java\Test>java UseArgument_Hi MCLo
Hi, MCLo. How are you?
P:\Lectures\108_1st\Java\Test>java UseArgument_Hi Paddy
```

Test

← → ↑ ↓ This PC > My Passport (P:) > Lectures > 108_1st > Java > Test Search Test

Name	Date modified	Type	Size
HelloEverybody.class	6/13/2019 10:35 PM	CLASS File	1 KB
HelloEverybody.java	6/13/2019 10:20 PM	JAVA File	1 KB
HelloWorld.java	6/13/2019 10:44 PM	JAVA File	1 KB
UseArgument_Hi.class	6/13/2019 10:51 PM	CLASS File	1 KB
UseArgument_Hi.java	6/13/2019 10:49 PM	JAVA File	1 KB

5 items