

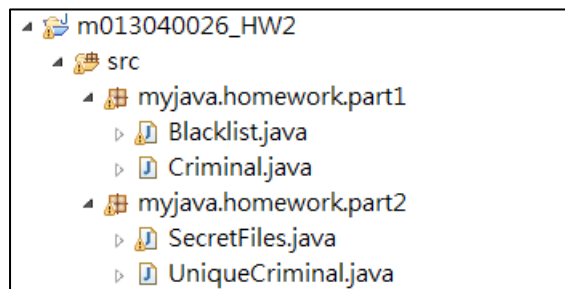
[2013 JAVA 物件導向程式設計 Homework 2]

● 注意事項

1. 請使用 JAVA 語言，配合 Eclipse 寫本次作業並進行測試，並安裝、使用 JAVA SE Development Kit(JDK) 7 函式庫。
2. 請依據作業規定設定 Eclipse 專案名稱與 package name，若未依照規定將根據狀況扣分。
3. 嚴禁抄襲其他同學作業，參與者(抄襲與被抄襲)均以零分計算。
4. 請對你的程式碼有深入瞭解，demo 時助教會問。
5. 對題目有問題可以寄信問助教群(java_ta@net.nsysu.edu.tw)或是到實驗室(EC5018)詢問，但不幫忙 debug。
6. 逾期以零分計算，不接受補交，有任何因素導致無法如期繳交，請事先告知；Demo 時間會另外通知。

● 作業規定與上傳

1. Eclipse 專案名稱：<學號>_HW2
2. Package path：請參考右圖
3. 作業請繳交專案之 tar 或 zip archive 並上傳至網路大學。
請於 **2014 年 3 月 10 日(週一) 23:59** 前上傳完畢，逾期以



- 零分計算，不接受補交，有任何因素導致無法如期繳交，有問題請事先告知，再次強調，Demo 時間會另外通知。
4. Example of eclipse package explorer(請根據作業規定修改)：

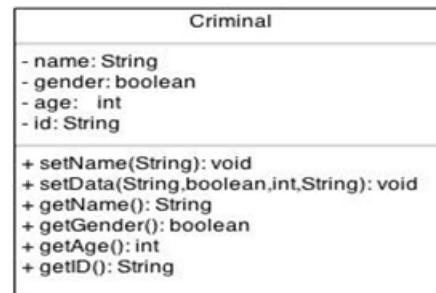
提示：此次作業需參考到 UML。請注意、+、-、__，都是有意義的。

可以參考此 Wiki 之 Members 章節說明：[Class Diagram\(Wikipedia\)](#)

● Part1

You are a rookie police in the NYPD. There is a job for the new guy. You need to create some criminal's list for the department. Follow these requirements to do a great job.

1. Create a class "Criminal". And the class must have **three constructors**. The first one is **no-argument constructor**. The second one has **one argument "name"**. The third one has **four-argument "name", "gender", "age", "id"**.



2. When you finish the class, "Criminal", you need to write a program to provide other officer to find out these bad men and add some new data.

So make a main class, "Blacklist", and creates three criminals.

The first one does not need to input any data. The second one we only knows his/her name is "BaLLchinian". The third one his name is "Scofield", a white male ,25 years old, and his social ID is "C0102<your last 5 student ID>" ,that is all we know.

3. Now show your partner what a great job you did. Provide the functions like the following picture. (Show suspect's detail. Change suspect's detail. Check out the data again.)

Step1. Show the usage. (Type 1 ...,Type 2 ...)

Step2. If user input 1 then let user choice which criminal's data user want to see and display it.

Step3. If user input 2 then let user set the criminal's data.

```
Type 1 means looking for some one.
Type 2 means change someone's detail.
Input:1
Which one you want to check?(1 , 2 , 3)
Input:1
First suspect is:null
He/She's age is:0
Social ID:null
Gender:female
```

```
Type 1 means looking for some one.
Type 2 means change someone's detail.
Input:2
Which one you want to change?(1 , 2 , 3)
Input:1
Name:Manson
Gender(male/female):male
Age:41
ID:CXXX11111
```

Result:

```
Type 1 means looking for some one.
Type 2 means change someone's detail.
Input:1
Which one you want to check?(1 , 2 , 3)
Input:1
First suspect is:Manson
He/She's age is:41
Social ID:CXX11111
Gender:Male
```

● Part2

Sometimes you find a legendary and unique criminal. For example, a *BOSS* of *Toto Riina*, the mafia, or *Jack Sparrow*. So you need to create a special and unique item to represent it.

1. Create a class, "UniqueCriminal", it has a private constructor. The constructor includes four arguments, "name", "gender", "age", "id".

UniqueCriminal
- name:String - gender:boolean - age:int - id:String - bigBadGuy:UniqueCriminal
+ getInstance(String,boolean,int,String): UniqueCriminal + printData(): void

2. You should use the bigBadGuy to generate a unique instance via `getInstance()`, and then make a main class which name is "SecretFiles".(`getInstance()` should call the constructor)
3. Show the result like the following picture.

Step1. Input criminal's data.

Step2. Show the criminal's data via `printData()`.

```
Create a unique bad guy's detail now.
Name:Jack The Ripper
Gender(male/female):male
Age:30
ID:CXX1000015

Check the Detail:
The bad guy is:Jack The Ripper
He/She's age is:30
Social ID:CXX1000015
Gender:Male
```