



ITCS 208 Object Oriented Programming	Name:	Lab Score	Challenge Bonus	Peer Bonus
	ID:			
	Section:			

## Lab02: Classes, Objects, Methods

In this lab, you will be implementing a Java program to store and retrieve student information such as ID, name, age, and address.

**Task 1:** Implement class `StudentProfile` in `StudentProfile.java` to store *studentID*, *name*, *age*, and *address*. Please make sure that these variables cannot be accessed directly by other classes. Then, implement methods to store and retrieve all these variables. For example, `setStudentID(int id)` and `getStudentID()`.

**Task 2:** Implement method `getAllInfo()` in `StudentProfile` to print all student information in the following format:

```
5888023 : Peter Copper, 22
26 Waterloo street, Leamington spa CV312RT
```

**Task 3:** Implement a class `ManageStudent` in `ManageStudent.java`. In the main method of this class, instantiate two `StudentProfile` objects to store your and your friend's information, then print it out via `getAllInfo()`.

Show the results of each of these tasks to an instructor.

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### Challenge Bonus (Optional):

For the class `StudentProfile`, use **static variable** to count number of students that are created. Implement the method `ageDiff` in class `ManageStudent` to calculate different between ages of any two students. Be careful!!, the result should always return a positive value. Show the results to an instructor to get the bonus score. 😊

### Peer Bonus (Optional):

To claim this extra bonus, once you finish your program, help other friends and make sure they understand what's going on. You must stick to the following rules:

1. Do not write code for nor dictate your friend!
2. Make sure your friend understands and can reproduce the solution on his/her own if given a similar problem.
3. A friend can be helped by at most one friend.

To earn this peer bonus, after your friend finishes his/her lab, ask him/her to give you a sticker. You will earn the peer bonus for the first three stickers, but keep helping your friends still.

