# Lab lecture exercises – 7 October 2016

1. **Set Up** Add to your .cshrc file the following lines (see also on Canvas cshrc-add):

### 2. JUnit – Terminal

- (a) Close the terminal by inputting exit. Open a Terminal.
- (b) Copy the file https://canvas.bham.ac.uk/courses/21955/files/3262280 to JUnitExample.java.
- (c) Compile the file by javac JUnitExample.java.
- (d) Run the tests by junit JUnitExample.

## 3. Eclipse

- (a) Open Eclipse by entering in a terminal the command eclipse &.
- (b) Enter a file space where you want Eclipse write all your Java files.
- (c) Possibly close the Welcome window (by clicking the x).
- (d) Start a new Project by clicking Java Project following the File and then the New. Name the new project Week2, and press the Finish button.
- (e) Create a Class following File and New again.
- (f) Give the class the Name HelloWorld and press the Finish button.
- (g) Enter in the HelloWorld.java window the HelloWorld program.
- (h) Run it by clicking the white arrow in the green circle.

## 4. JUnit – Eclipse

- (a) Create a JUnit test case with JUnitExample (following the File and New again).
- (b) Copy the text from the link above into the new window.
- (c) Click on the first red error message, choose the last option "Fix project setup ...", then "Add JUnit 4 library to the build path".
- (d) Run the tests by clicking the white arrow in the green circle. (You have to click again okay in a pop-up window.)

#### 5. Class

Write a class Patient with the field variables name, id, address, phoneNumber all of type String. Generate a constructor, getters, setters, and a toString method following the Source tab in Eclipse. Add an equals methods.

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