Lab lecture exercises – 30 September 2016

1. (a) Log-in.

   (b) Open a Terminal.

   (c) Create a new directory called `java` by typing in the terminal `mkdir java` ("make directory"). Then press the `return` key.

   (d) Make the `java` directory to your working directory by `cd java` ("change directory").

   (e) Edit a file `HelloWorld.java` by invoking an editor of your choice, e.g., by `gedit HelloWorld.java &`. Note that the "&" at the end means that the shell can be used for other input. We say that the `gedit` process is moved to the background and we can run several processes in parallel in a single terminal.

   (f) Insert text into the editor, e.g., by copying the file from the module web page at `http://www.cs.bham.ac.uk/internal/courses/java/msc/`.

   (g) Save the file (in gedit by pressing the "Save" button).

   (h) Compile the file in the terminal by typing `javac HelloWorld.java`.

   (i) Run the program by typing `java HelloWorld`.

   (j) Extract the documentation by typicing `javadoc HelloWorld.java`.

2. Write a class `Rectangle.java` which contains a method to compute the circumference,
   `public static double circumference(double a, double b)` of rectangles with sideline lengths `a` and `b`. Test your program with `a = 4` and `b = 5`. Print the result in a suitable form.

3. Start work on Exercise 1 of Worksheet 1.

4. Start work on Exercise 2 of Worksheet 1.