

Lab Tutorial 1

To use command for compiling and running a java program, you need to install JDK 8 or later version e.g. JDK 11

(<https://www.oracle.com/java/technologies/javase-jdk11-downloads.html>)

Remember to **Setting the PATH Environment Variable**

<https://docs.oracle.com/en/java/javase/11/install/installation-jdk-microsoft-windows-platforms.html#GUID-96EB3876-8C7A-4A25-9F3A-A2983FEC016A>

In this exercise you are required to review the following tutorials:

<https://docs.oracle.com/javase/tutorial/getStarted/cupojava/win32.html>

and

<https://docs.oracle.com/javase/tutorial/getStarted/application/>

To pass this exercise you must:

- Complete all the tasks below
- After completing the tasks, put your files into one zip file, submit it to canvas for assessment
- Discuss your work with your tutor in the tutorial lab class for feedback
- Submit by the end of the tutorial or submit it by **due date Sunday** of this tutorial week)

Exercise 1 – HelloWorld1

1. Create a folder in home directory called Week1_lab
2. Open Notepad or NotePad++ (<https://notepad-plus-plus.org/>)
3. Copy the code from the java Hello World tutorial into the text editor
4. Change the class name to HelloWorld1
5. Change the text so it says “How are you, <put your name here>?”
6. Save the program in a file called HelloWorld1.java in Week1_lab
7. Open up a command window (Start → cmd)
8. Navigate to Week1_lab
9. Compile the program, at the command line, using javac (**javac HelloWorld1.java**)
10. Enter dir at the command line, what file was created?
11. Run the program, at the command line, using java (**java HelloWorld1**)
12. Debug the code if it does not work as expected.
13. Add appropriate comments before the class definition. The comments should include following information: the purpose of the class, your name and student ID, version. Something like:

```
/**
 * Brief description
 * @author      Firstname Lastname <student ID>
 * @version     1.8
 */
```

14. Make a copy of your work for later submission.

Exercise 2 – HelloWorld2

The task here is to modify HelloWorld1 so that your name and hometown are sent to the program from the command line.

That is, you enter **java HelloWorld2 yourname Swinburne**

As a result, the program should output the following.

Welcome <yourname> from Swinburne.

Steps

Make a copy of HelloWorld1.java and name it HelloWorld2.java

Modify the code to achieve the following.

1. Replace the text message with "Welcome <" + args[0] + "> from " + args[1] + ".".
2. Compile and run your program at the command line
3. Test to see if it works correctly
Try java HelloWorld2 yourname Swinburne
4. Fix the code if it does not work as expected
5. Add appropriate comments before the class definition. The comments should include following information: the purpose of the class, your name and student ID, version.
6. Make a copy of your work for submission.