# Lab 1: Chapter 1, “Introduction”

The following exercises are intended to help you apply and practise the concepts introduced in this module. This work is **not** submitted for marks. The questions are from the end of the chapter in your text under the “Exercises” and “Programming Projects” headings.

If you haven’t already done so, follow the instructions in the document “Setting up Your Java Environment—Windows” to install the Java JDK and the JCreatorLE package for a Windows PC, or “Setting up Your Java Environment—Apple Mac” to install the Java JDK and BlueJ for an Apple Mac. Create and run the HelloWorld application to test that your system is correctly set up.

1. Which of the following are not valid Java identifiers? Why?
2. Factorial
3. anExtremelyLongIdenfierIfYouAskMe
4. 2ndLevel
5. level2
6. MAX\_SIZE
7. highest$
8. hook&ladder
9. Categorize each of the following situations as a compile-time error, run-time error, or logical error.
10. multiplying two numbers when you meant to add them
11. dividing by zero
12. forgetting a semicolon at the end of a programming statement
13. spelling a word wrong in the output
14. producing inaccurate results
15. typing a [ when you should have typed (
16. Enter, compile, and run the following application:

public class Test  
{  
 public static void main (String[ ] args)  
 {  
 System.out.println ("An Emergency Broadcast");  
 }  
}

1. Introduce the following errors, one at a time, to the program from PP 1.1. Record any error messages that the compiler produces. Fix the previous error each time before you introduce a new one. If no error messages are produced, explain why. Try to predict what will happen before you make each change.
2. change Test to test
3. change Emergency to emergency
4. remove the first quotation mark in the string
5. remove the last quotation mark in the string
6. change main to man
7. change println to bogus
8. remove the semicolon at the end of the println statement
9. remove the last brace in the program

Review your work by viewing the solution sheet.