# Lab 1: Chapter 1, “Introduction” SOLUTION

The solutions for each Lab 1 question are listed below. The following exercises are intended to help you apply and practise the concepts introduced in this module. This work is **not** submitted for marks.

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

**SOLUTION**

c. 2ndLevel – It cannot start with a digit.  
g. hook&ladder – The special character “&” is not allowed.

1. Categorize each of the following situations as a compile-time error, run-time error, or logical error.
2. multiplying two numbers when you meant to add them
3. dividing by zero
4. forgetting a semicolon at the end of a programming statement
5. spelling a word wrong in the output
6. producing inaccurate results
7. typing a [ when you should have typed (

**SOLUTION**

1. logical error
2. run-time error
3. compile-time error
4. logical error
5. logical error
6. compile time error
7. Enter, compile, and run the following application:

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

**SOLUTION**

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

**SOLUTION**

See the Test2.java file.