# Lab 2: Chapter 2, “Data and Expressions”

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” or “Programming Projects” headings.

Try to answer the question based on reading the code. Then insert the statements in a Java program to see the actual result. For items 4 to 6 you will also need to print the value with a System.out.println statement.

1. What output is produced by the following code fragment? Explain.

System.out.print ("Here we go!");  
System.out.println ("12345");  
System.out.print ("Test this if you are not sure.");  
System.out.print ("Another.");  
System.out.println ();  
System.out.println ("All done.");

1. What is wrong with the following program statement? How can it be fixed?

System.out.println ("To be or not to be, that is the  
question.");

1. What output is produced by the following program statement? Explain.

System.out.println ("50 plus 25 is " + 50 + 25);

1. What value is contained in the integer variable size after the following statements are executed?

size = 18;  
size = size + 12;  
size = size \* 2;  
size = size / 4;

1. What value is contained in the floating point variable depth after the following statements are executed?

depth = 2.4;  
depth = 20 - depth \* 4;  
depth = depth / 5;

1. What value is contained in the integer variable length after the following statements are executed?

length = 5;  
length \*= 2;  
length \*= length;  
length /= 100;

1. Write four different program statements that increment the value of an integer variable total .

Review your work by viewing the solution sheet.