

Programming Lab Exercise 1

Before you start:

Create a folder called **lab1** inside your personal **java** folder you created at the start. Save all your work for lab 1 in this folder.

Using Eclipse:

Your understanding of the concept of classes and methods are examined here, in particular:

- Writing class definitions
- Creating instances of classes
- Calling object methods
- Accessing data belonging to an object instance

Complete each question (successfully!) before you move on to the next one.

Each program should be saved in a file named after the question. For example, the answer for Q1 should be saved in a file called **lab1q1.java etc.**

Exercises:

Q1. Download the Thermometer.java and ThermTest.java source files. Compile them and ensure the driver program runs successfully. Examine the Thermometer class and note the presence of a second constructor: `public Thermometer(double cel)`. What is this used for?

- a. Create a second instance of the Thermometer class called **thermB**.
- b. thermB should be instantiated using the second constructor, so that its temperature is set to 10.0 Celsius.
- c. Now Get the temperature of thermB and store it in a variable called tempB.
- d. Print the value of tempB on the screen.

Your output should like this:

```
Temp. of Thermometer A is 0.0
Temp. of Thermometer A is 20.0
Temp. of Thermometer B is 10.0
```