

# Fundamentals of Programming 2

## Exercise sheet 5 5%

**\*\*\* READ THE QUESTIONS CAREFULLY \*\*\***

**\*\*\* NAME YOUR FILE SortExperiment.java \*\*\***

**\*\*\* SUBMIT NEAT, COMMENTED AND INDENTED CODE \*\*\***

### Question 1

Download the **SortExperiment.java** file from MOODLE. Read the code and complete the sections marked TODO.

### Question 2

Java has an in-built library called **Arrays** that has a method called **sort**. The sort method can be used to sort an integer array as follows:

```
// Import the Arrays library
import java.util.Arrays;
```

```
// Use the Arrays.sort() method to sort an integer array called myArray
Arrays.sort(myArray);
```

Modify the SortExperiment.java file to add an additional experiment to test the runtime of the in-built Java Arrays.sort() method.

### Deliverables

Place all your Java source files in a folder called **Week5**. Zip the Week5 folder and upload the zip file using the your group upload link on MOODLE.

**All work must be submitted during your scheduled practical sessions.**

### Plagiarism

This assessment should be an individual piece of work. Any evidence of plagiarism will result in a grade of zero for all parties involved and will trigger the Universities plagiarism policy **3AS08** (see course coordination page).