Webinar 11A – File Handling and Sorting

# Learning Objectives

* Implement file handling using Processing native file handling capabilities
* Utilise built-in sorting methods to sort a collection of values

# Preparation

Download **FileHandlingDemo.zip** from Moodle. This folder contains a single Processing PDE file and a text (txt) file that we will be interacting with.

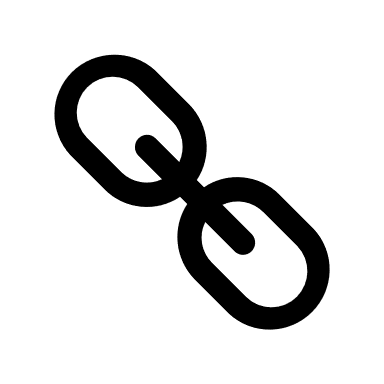
# Part 1 – File Handling

File handling is usually achieved using built-in classes in Java; these classes are part of the **java.io** package (io as in input/output). **Processing** has some native (built-into Processing) file-handling capabilities which are simple yet effective enough for you to make use of in your assessment. Perhaps the simplest of these are [**loadStrings**](https://processing.org/reference/loadStrings_.html) and [**saveStrings**](https://processing.org/reference/saveStrings_.html), which we will take a look at first.

# Part 2 – Sorting

Java has built-in classes that allow us to search and sort collections such as arrays and ArrayLists.

**Unit Link – Algorithms and Data  
Structures**If you are on **Computer Science**, **AI and Data Science**, or **Computer Games Development**, you will undertake the **Algorithms and Data Structures** unit in Year 2 Semester 1.



Data structures, and algorithms that interact with them, are a huge topic. So much so that an entire unit can be dedicated to them. In this part of the webinar, we will look at a built-in class called **Arrays**, which contains methods for sorting an array.