COMP1040

# Programming Fundamentals

# **Assignment 1**

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## INTRODUCTION

This document describes Assignment 1 for Programming Fundamentals. The assignment will require you to write a class to represent a mutable list of characters. It will contain an array of chars and a variety of methods for accessing, modifying and resizing the array.

You will find instructions for completing the assignment in the doc folder in JavaDoc format. Start with /doc/progfund/CharList.html.

Run the provided TestDriver to see if your methods are working and to get a good estimation of your final grade. There may be errors that the TestDriver cannot help you with. You will need to create your own main method and write your own tests to debug your code.

## SUBMISSION DETAILS

You are required to submit an electronic copy of your program via Moodle. Make sure your eclipse project is included in a zip file (WinZip). The zip file should be called `yourId.zip`. For example: `bonjy1207.zip`. Ensure that your files are named correctly (as per instructions outlined in this document).

All Java files that you submit must include the following comments.

```
/**
/ File: fileName.java
/ Author: your name
/ Id: your id
/ Version: 1.0 today's date
/ Description: Assignment 1 - ….
/ This is my own work as defined by the SAIBT
/ Academic Misconduct policy.
*/
```

Assignments that do not contain these details may not be marked.

Work that has not been correctly submitted to Moodle will not be marked.

**It is expected that students will make copies of all assignments and be able to provide these if required.**

## EXTENSIONS AND LATE SUBMISSIONS

There will be **no** extensions/late submissions for this course without one of the following exceptions:

1. A medical certificate is provided that has the timing and duration of the illness and an opinion on how much the student's ability to perform has been compromised by the illness. **Please note** if this information is not provided the medical certificate WILL NOT BE ACCEPTED. Late assessment items will not be accepted unless a medical certificate is presented to the Course Coordinator. The certificate must be produced as soon as possible and must cover the dates during which the assessment was to be attempted. In the case where you have a valid medical certificate, the due date will be extended by the number of days stated on the certificate up to five working days.

2. A SAIBT councillor contacts the Course Coordinator on your behalf requesting an extension. Normally you would use this if you have events outside your control adversely affecting your course work.

3. Unexpected work commitments. In this case, you will need to attach a letter from your work supervisor with your application stating the impact on your ability to complete your assessment.

4. Military obligations with proof.

Applications for extensions must be lodged with the Course Coordinator before the due date of the assignment.

Note: Equipment failure, loss of data, 'Heavy work commitments' or late starting of the course are not sufficient grounds for an extension.

## ACADEMIC MISCONDUCT

Students are reminded that they should be aware of the academic misconduct guidelines available from the SAIBT website.

Deliberate academic misconduct such as plagiarism is subject to penalties. Information about Academic integrity can be found in the "Policies and Procedures" section of the SAIBT website.

## MARKING CRITERIA

The project contains a Test Driver which you can run to get an estimation of your final mark.

Once submitted, the marker may deduct marks from the Test Driver's score for the following reasons:

- *Extra Test Cases:* The marker may run tests not present in the Test Driver worth up to 50% of the method's value.

- *Method Not Written:* Some tests may award you marks even if you have not added code to the method. These marks will be deducted.

- *Programming style:* Up to -10 marks if there is poor or no commenting, poor variable names, messy code, use of break and continue etc.

- *Disobeying Specification:* -20 marks if assignment is submitted incorrectly, for changing method signatures or for purposely cheating the test driver.

In addition, the marker may add marks to the Test Driver's score for the following reasons:

- *Test Driver Error:* If there is a proven error in the Test Driver, the method will be tested and marks added manually.