

Assignment 2 2022

You are now a programmer that will use the `MyArrayList` class, that was presented in the first session of SU3.

The purpose of this programming assignment is to:

- *Change your Assignment 1 classes to be able to make use of the functionalities of the generic `MyArrayList` class*
- *Write a test program that makes use of the functionalities of the generic `MyArrayList` class*

In Assignment 1 you created your own superclass-subclass hierarchy with abstract methods. Remember that the abstract methods are the same for both subclasses and can be used with polymorphism to return specific information about a specific class.

- You need to use your own class hierarchy developed in Assignment 1.
- Make sure that your abstract method returns a data type that can be used to compare it with objects of the same type. This is necessary for this assignment.
- You need to make changes **ONLY** to headings of your classes – nothing needs to change in the `MyArrayList` class.

Your main work is in the test program. Make sure you understand the big picture!! Read the overview section of the Study Page for SU3 if you do not know exactly what you are busy with. On the slides of SU3 you will find a list of things to do when a class wants to use the `MyArrayList` class.

- In your test program create a `MyArrayList` with objects using both your subclasses.
- Your test program should then sort your objects using the abstract method created - this tells you how to create your `compareTo` method.
- Use the `toString` method to display your list of objects before and after the sort.