Lab 2.2

(February 15, 2022)

In this exercise, you will continue working on the source code you modified during the previous week's lab session on February 7. Alternatively, you can work on the Java project Lab2.2 provided under folder Source Code (Please see the README file to be able to work on Java project folder in Eclipse IDE.).

1. Write a Person class that stores relevant information (name and date of birth) about an individual Person. It should have the following methods:

- A constructor that takes the name as a String and date of birth as a Date object.
- A print method with a PrintStream parameter. It should print out the person's name and date of birth.
- A method called getName that returns the person's name.
- A method called getAge which takes the current date as a parameter and returns the person's age as an integer.

Write a `main()` method to make sure that all methods work properly.

2. Write a class called Lop that stores a list of people. Use a simple implementation, a fixed size array. It should have the following methods:

- add, which takes a Person as a parameter and adds it to the list.
- remove, which takes a Person as a parameter and removes it from the list.
- find, which takes a String as a parameter and returns either the first Person in the list with that name or a null value.
- print, which prints out all the Person objects in the list, one per line.

Modify the `main()` method that you implemented (for question **1)** to make sure that all methods you that implemented for question **2** also work properly.

3. (**BONUS question**) Provide a better implementation of Lop, using a collection rather than an array. If you have designed it well, then you should not have to change any code apart from the LoP class.