## Exercises session 1, SDJ1

## **Exercise 1.05** - Testing a MyDate class (from the RentalCompany-code)

- a) Download the file <a href="http://ict-engineering.dk/jar/RentalCompany.jar">http://ict-engineering.dk/jar/RentalCompany.jar</a> to a folder on your computer
- b) Open IntelliJ, click the Project (e.g. named A20) and use menu File→New to create a new Module with the name Exercise1 05
- c) Create in this module (click the src folder first) a class called DateTest with a main method.
- d) Setup IntelliJ to get access to the downloaded file, the following way:
  - → File (top menu) → Project Structure...
  - → Libraries → + [Click + in the top of the second compartment and Select] Java
  - → [Navigate to the folder with the downloaded file: RentalCompany.jar and select the file]
  - → [Choose the Module] Exercise1 05 → OK
- e) In your class file, In line 1 (before: public class DateTest), write the following statement: import rentalcompany.model.\*;
- f) The following statements creates the date 23/1/1996 (release date for Java 1.0) and prints it out:

```
MyDate dateForFirstJavaRelease = new MyDate(23, 1, 1996);
System.out.println("Java1 date: " + dateForFirstJavaRelease);
```

## The output is:

```
Javal date: 23/01/1996
```

Use the above as basis to write statements (in the body of your main method) to create and print out a date with your birthday. Name the MyDate variable birthday and not as in the above statements dateForFirstJavaRelease — and find a proper text in the print statements.

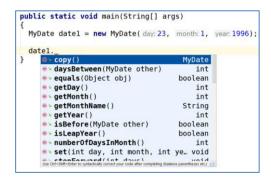
g) The following statements calculates the number of days between today and the date 23/1/1996 and print it to the screen:

```
Days since first Java release: 8989
```

Use the above as basis to write statements (in the body of your main method) to calculate and print out your age in days.

- h) In the MyDate class there is a method yearsBetween to be used the following way: int years = date1.yearsBetween(date2);
  Use this method to calculate and print out your age (from your birthday and today's date).
- i) OPTIONAL: Call some of the other methods in MyDate to get a feeling what you can do with a MyDate object.

In IntelliJ, you can see which methods are available. When you type the dot after the MyDate-variable a popup with methods appears (if not, then Ctrl+Space after the dot).



Documentation: http://ict-engineering.dk/javadoc/RentalCompany/rentalcompany/model/MyDate.html