

Exercises Module 11 - Date and Time

Task 1 - Calculate the age of the user

Create a program that asks the user to enter the year of birth, and then print out the age of the user.

Can you handle the case if the user enters the year of birth with only two digits?

Task 2 - LocalDateTime

Create a program that prints out:

- the current month (as text, like JANUARY)
- the date of today (as a number, like 15)
- the date and time 6 months, 2 days and 7 hours from now, and with a format that matches these examples (using the date January 7:th, 2019 as an example):
 - "Mon, Jan 07 2019" (or with a Swedish locale it would be "må, jan 07 2019")
 - 1/7/19
 - 2019-01-07
 - 7 January 2019

Take a look at the documentation:

<https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html> 
(<https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html>)

Task 3 - Until examination day

Create a program that calculates the number of months and days until the examination day.

You can first create one `LocalDate` object representing today, and one `LocalDate` object that represents the examination day.

Then use the `Period` class to get a `Period` between the two dates.

Print out the number of months and days of the `Period` object.

Also try to print out the total number of days until the examination day. Is this possible with `Period`?

Try using the class `ChronoUnit` for this, like:

```
ChronoUnit.DAYS.between(today, examinationDay);
```

```
ChronoUnit.DAYS.between(today, examinationDay);
```

Task 4 - Until examination day - hours

Continue working on the project from task 3. Can you print out the number of hours until the examination day? The number of minutes?

Tip: Continue using the ChronoUnit class.

Can you find what you need to change for the example to work with hours or minutes?