

## **HW1 Objectives**

- Make sure you can install and run Eclipse
- Create your GitLab account on <http://141.223.163.200>
- Practice Java programming

## **Getting java**

- We use Eclipse in this class. You will need Java, or more specifically, the Java Development Kit (JDK).
- Get the latest JDK(8u181) from <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>.

## **Getting Eclipse**

- Download and install Eclipse Photon at <http://www.eclipse.org/downloads/packages/release/photon/r/eclipse-ide-rcp-and-rap-developers>. Be sure you download the **Eclipse for RCP and RAP Developers**. Download the right version for your platform.
- When you start Eclipse, it will prompt you for a workspace location. You can have multiple workspaces, and the setting for each workspace will not affect the others.

## **Create your GitLab account**

- Create your GitLab account using your Hemos ID and your actual name in English at <http://141.223.163.200>
- Create SSH keys using the instruction in <http://141.223.163.200/help/ssh/README>.
- Create a **private** project with name "homework1", and clone the project on your machine.

## Answer the questions and upload it

- Create an unformatted text file named README.md in homework1 (on your machine). You can format the text using the Markdown language (<https://daringfireball.net/projects/markdown/>).
- Write your answers of the Eclipse questions below
- Add and commit the changes, and upload them to the remote repository at <http://141.223.163.200>. You should be able to see your (formatted) text at the front page of your homework1 project, for example:

### *Eclipse*

1. Answer1
2. Answer2
3. Answer3


## Eclipse Questions

1. You find a piece of code on the web. You copy it (legally) and paste it into Eclipse but the formatting is off. Using Eclipse shortcuts, how would you change the unformatted text:

```
public class
HelloWorld {
public static void main(String[] args) {
System.out.println("Hello World");
}
}
```

into the formatted text below?

```
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

2. Sometimes you would like to quickly comment/uncomment a chunk of code. How would you do this (i.e., what keyboard shortcut would you use) in Eclipse without having to manually manipulate each line?
3. Keyboard shortcuts are useful when you are editing Java code. One very useful keyboard shortcut is T or Ctrl+Shift+T. What does it do?

### Practice Java Programming

1. Overview
  - The goal of this assignment is to create an account management system.
  - There is a "Bank" and people can own accounts.
  - There are two types of account, a high interest account and a low interest account.
2. Skeleton code
  - Download the attached homework1.zip.
  - The src folder containing the skeleton for the source code. You should implement all methods and classes with TODO.
  - **Do not modify the existing interface, the class names, and the signatures in the source files. (You can add more method or class if you need)**
3. Turning in
  - Upload the source files to the "homework1" project that you create before.
  - **You have to tag the project with "submitted" when you finish your homework before the deadline**  
(<https://docs.gitlab.com/ee/university/training/topics/tags.html>).