

Programare avansata pe obiecte

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1. Evaluare

- Proiect laborator
 - Proiectul va consta intr-o aplicatie in care vom pune in practica ceea ce vom invata in acest semestru
 - Acesta va fi structurat in 3 etape (3p/3p/4p)
 - Conditii de punctare: nu trebuie sa aiba erori de compilare si sa se implementeze cerintele date

2. Prerequisites

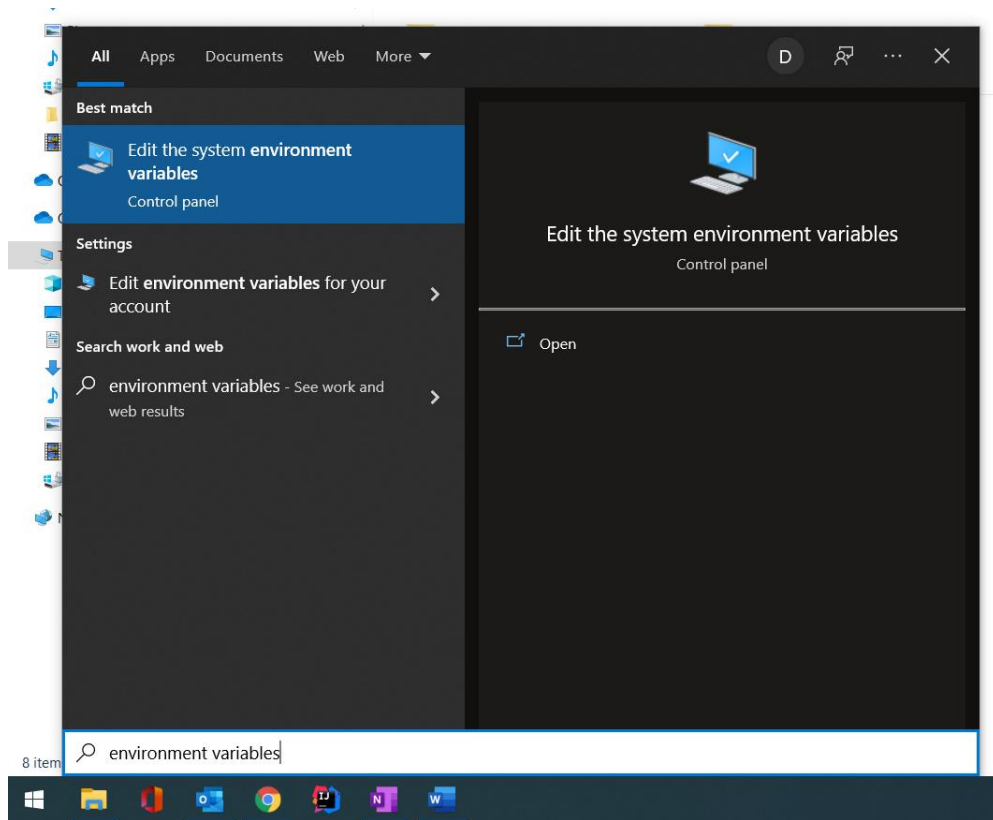
2.1. Java

What is Java?

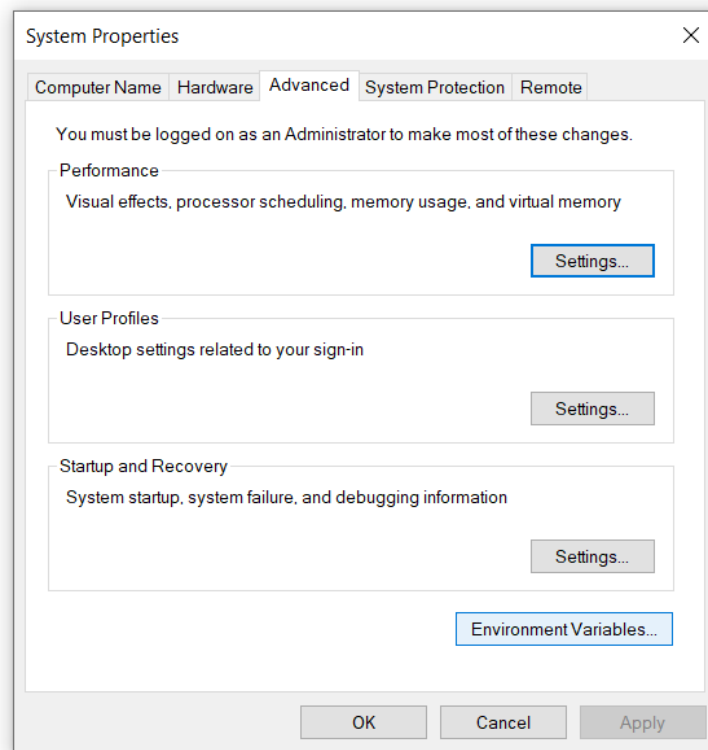
- JRE Java Runtime Environment
- JDK Java Development Kit

What version of Java to use?

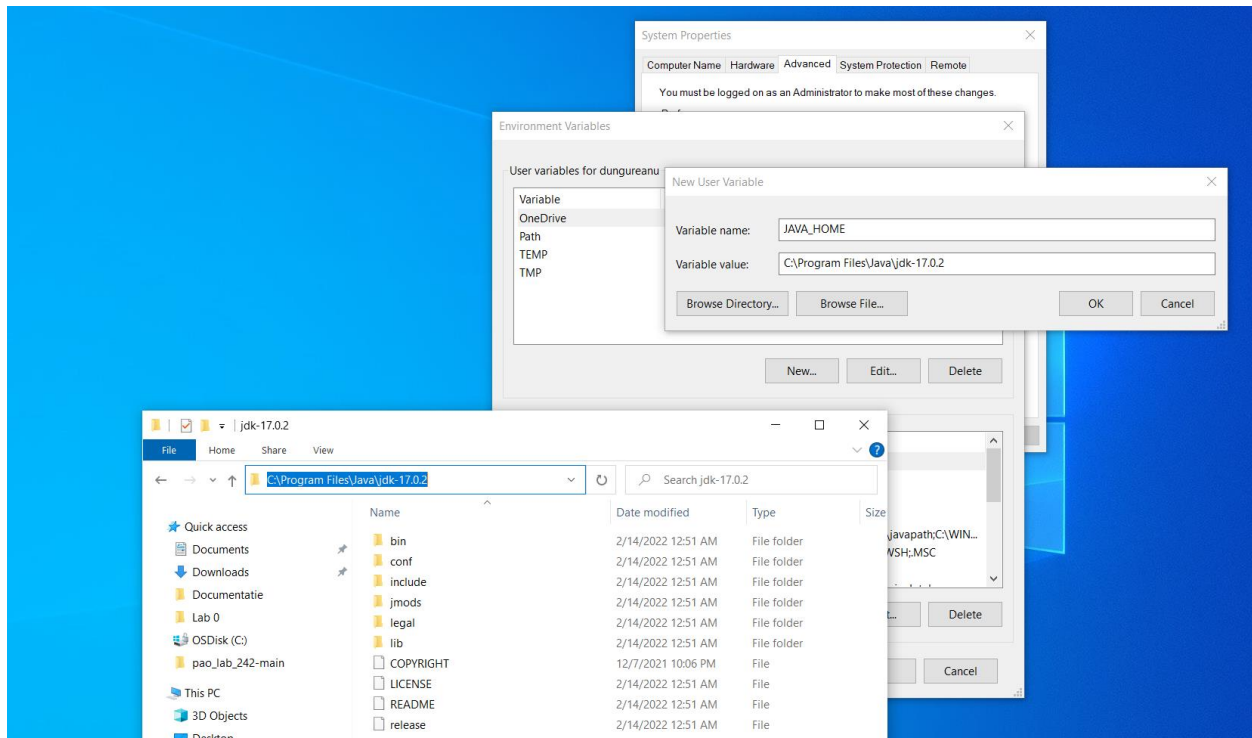
- Java versions: <https://www.java.com/releases/fullmatrix/>
 - Oracle roadmap <https://www.oracle.com/java/technologies/java-se-support-roadmap.html> useful for checking LTS (Long term support) versions
- Download and Install Java (note, we will need the JDK to do our programming):
 - <https://www.oracle.com/java/technologies/downloads/#jdk17-windows>
 - Guide: <https://docs.oracle.com/en/java/javase/17/install/installation-jdk-microsoft-windows-platforms.html#GUID-A7E27B90-A28D-4237-9383-A58B416071CA>
 - <https://adoptium.net/>
 - Guide: <https://adoptium.net/installation.html>
- Update Environment Variables to be able to run the Java commands:
 - Click on Start/Windows Icon and start typing "environment variables"
 - Select "Edit the system environment variables"



- Click on “Environment Variables...”



- Create a new variable “**JAVA_HOME**” and set the value to be the Installation path for Java JDK



- Update the existing Path variable and add a new line with “**%JAVA_HOME%\bin**”

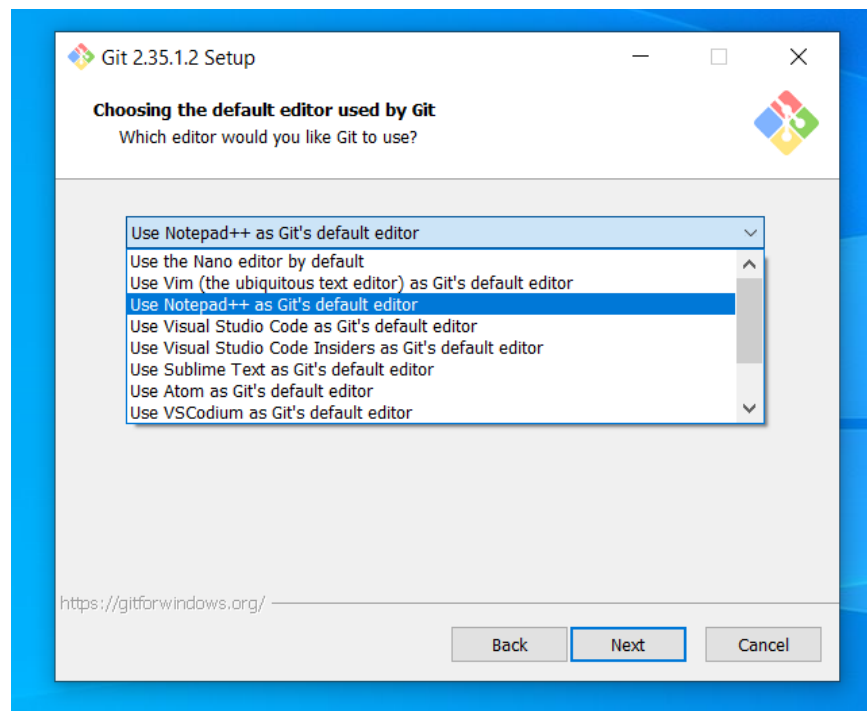
2.3. Hello World! (wave)

Live coding

2.4. Version control

- **Git**

- <https://git-scm.com/>
 - Download from: <https://git-scm.com/download/win>
 - While doing the installation, you may want to change the default text editor from Vim to something else

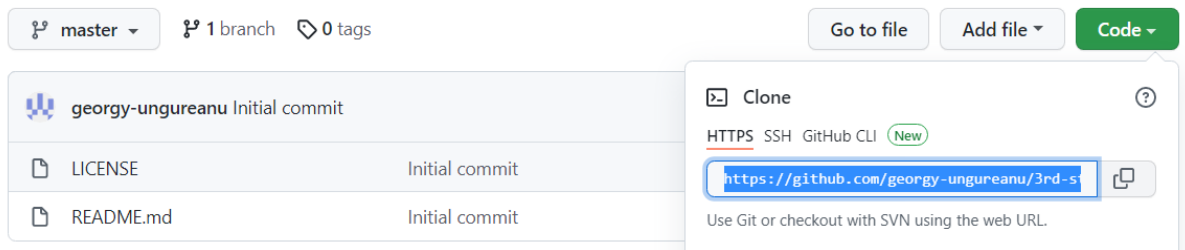


- **GitHub**

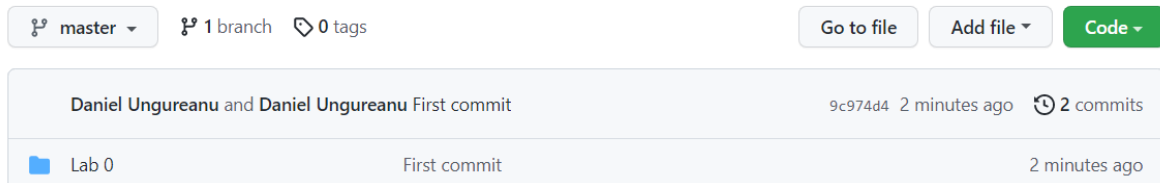
- <https://github.com/>
 - Create user: <https://github.com/signup>
 - Create repository: <https://github.com/new>

- **Git Bash**

- Open Git Bash and navigate to a folder where you want to store your code
- Here clone your newly created repository
 - **git clone** <https://github.com/>...



- Copy the Java files in the generated folder
- Check the status of the repository
 - o **git status**
- Select the files that you would want to commit/save to your repository
 - o **git add .**
- Create a commit
 - o **git commit -m "First commit"**
- Push the code
 - o **git push**
- Check to see your if the code is available in GitHub



2.5. Notes

- There are no stupid questions
- Google (any search engine) is your friend
- Good read: <https://www.goodreads.com/book/show/3735293-clean-code>
 - o Interesting person to follow: [Robert C. Martin](#) a.k.a. Uncle Bob