

Object-Oriented Programming 2

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Exercises 0

1. Git Installation

Make sure Git is installed on your machine. If not, download it from <https://git-scm.com> and install the software. If you are familiar to the command line, use the `git clone` command to clone the course repository from

```
https://github.com/BTI7055-ObjectOrientedProgramming/FS17-Documents.git
```

to your computer.

2. Installation of GitHub Desktop (optional)

You may want to install the GitHub Desktop application from <https://desktop.github.com> to get a convenient graphical tool for managing your GutHub repositories. Use it to clone the course repository to your computer using the link given above.

3. EGit Installation in Eclipse

Make sure the EGit plug-in is installed in Eclipse. To see this, select **Help** » **Installation Details** » **Features**. If not, select **Help** » **Install New Software** and type

```
http://download.eclipse.org/egit/updates
```

into the field called **Work with**. Click on **Select All** and then on **Next**. Follow the instructions. At the end of the process, you must enter your full name and email address. This information is used to fill the author and committer information of commits you create.

4. Cloning the GitHub Repository

Select **Window** » **Show View** » **Other** » **Git** » **Git Repositories**. A new view will open up somewhere in your workspace. Select in the view's menu **Clone a Repository**. Enter the path of your repository as indicated on the GitHub web page:

`https://github.com/BTI7055-ObjectOrientedProgramming/FS17-Project-XX.git.`

Select the master branch and enter your GitHub user name and password. Choose a location on your local disk to store the repository (not inside the Eclipse workspace) and click **Finish**.

5. Moving Existing Code to the GitHub Repository

Assuming you have already a Java project in your workspace, you need to transfer it to the Git/GitHub repository. In the context menu of the project, select **Team** » **Share Project**. Select the repository and click on **Finish**. Eclipse will now move all project files to the repository directory.

Then you need to commit them to the repository and push them to the GitHub server. For this select **Team** » **Commit** in the project's context menu. Select all files and enter a commit message. Click on **Commit and Push** or **Commit** (and select **Team** » **Push** separately).

6. Setting Up a GitHub Java Project on Another Machine

You can clone the repository as explained above or do everything in one step. In both cases, select **File** » **Import** » **Git** » **Projects from Git**. If you have cloned the repository before, select **Existing local repository**, otherwise select **Clone URI**. Follow the instructions.

7. Simultaneous Collaboration

If you work with a partner, make sure to get the latest changes before starting a new development session. For this, select **Team** » **Pull** in the project's context menu. After finishing your session, commit your changes to your local repository and push them to the GitHub server.