

General Information

Installation of Lean 4

Please find the installation of Lean 4 [🔗here](#). We recommend you to install Lean 4 through VS code and Lean 4 VS Code extension.

Code repository

We upload the lecture material, exercises, and solutions to [🔗this](#) GitLab repository every week.

If you are not familiar with Gitlab, please follow the below instructions to access the repository:

1. Make sure [🔗Git](#) is installed on your computer;
2. Log in KIT's [🔗Gitlab](#) with your student account;
3. Create a personal access token. You can create a token with the following steps:
 1. Click your avatar on the top left corner;
 2. Select "Preferences";
 3. Under "User settings", find the item "Access tokens";
 4. Click "Add new token" on the right;
 5. Configure an expiration date and cross all the items shown under "Select scopes";
 6. Click "Create token", and **save the generated token**
(If you familiar with SSH keys, you can also generate a SSH key access the repo)
4. After having the token, open your terminal and run the following command:

```
git clone https://gitlab.kit.edu/kit/kastel/sdq/teaching-
```

`materials/programmierparadigmen.git`

You need to enter your email address and the generated token to clone the repository (only the first time).

After successfully cloning the project, please read the `README.md` to understand the structure of the course material.

Exercises

Before each week's lab (Übung), the teaching assistants will upload a Lean file named `Exercises.lean` containing a set of coding exercises. You can find the worksheet in the `./Exercises/Week*/` folder on GitLab. To get the latest content, run `git pull` in your local repository.

Each exercise includes a task description and some unit tests. You need to implement the required task according to the description. A correct solution should pass all the provided tests. The exercises are not graded, as you can verify your implementation using the tests.

We will upload the solutions after each week's tutorial. You are encouraged to share your solutions and questions on Ilias forum after the solutions are released.

Tutorial

During each tutorial, one of the TA (Mo or Runqing) will explain the approaches to solving the exercises. Please bring your laptop to the lab if possible, you'll benefit much more from the session.

Discussion

The Programmierparadigmen course has more than 400 students this semester. If you encounter any problems during study, we advise you to submit your inquiry in the discussion forum on Ilias and ask other students because:

1. Students normally can respond to you much faster than teaching assistants;
2. All students benefit from the discussion.

Please keep the following rules in mind:

1. Being open-minded and respectful towards others;
2. If you need to discuss personal matters with the organizers, please contact one of the teaching assistants: [Mo Bitar](#) and [Runqing Xu](#).