

CS 61B

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Assignment Workflow

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Assignment Workflow

This guide describes how to set up an assignment in CS 61B.

Getting the Skeleton

A video demo of this guide is available at [this link](#).

The `skeleton` remote repository contains the skeleton code for all assignments. Whenever a new assignment is released, or if we need to update an assignment, you will pull from the skeleton. First ensure that you are in your `sp24-s***` repository directory, then:

```
git pull skeleton main
```

[Copy](#)

This fetches all remote files from the repo named `skeleton` (which is located at <https://github.com/Berkeley-CS61B/skeleton-sp24.git>) and copies them into your current folder.

WARNING

If you get an error similar to `fatal: refusing to merge unrelated histories`, you can fix this each time by using

```
git pull --no-rebase --allow-unrelated-histories skeleton main
```

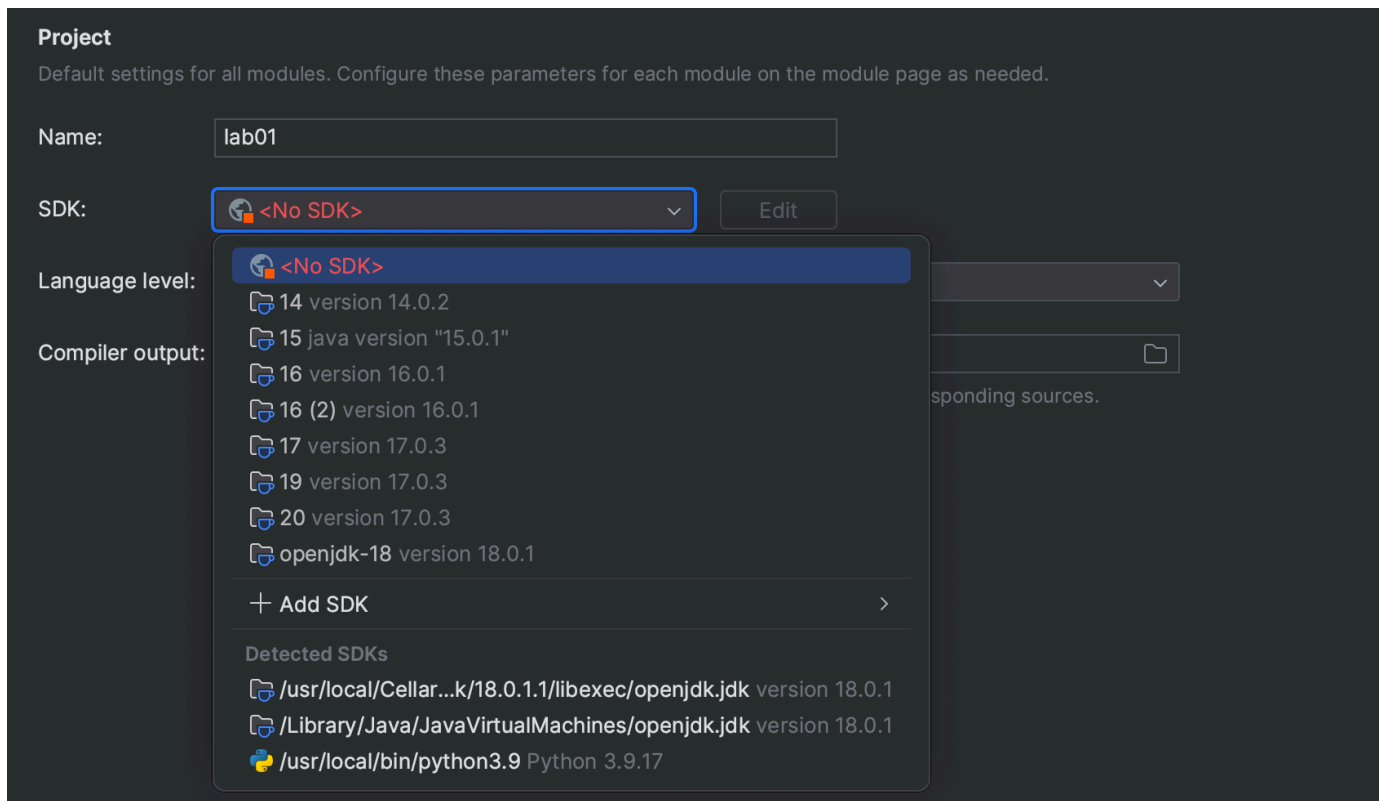
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(If you're working on Lab 1, go back to the lab spec at this point.)

Opening in IntelliJ

The following instructions apply for **every** assignment. **Each time after pulling from skeleton to get new lab or project files, you will need to run through the following steps again.**

- 1 Start up IntelliJ. **If you have no projects open**, click the “Open” button. If you have a project currently open, navigate to **“File -> Open”**.
- 2 Find and choose the directory of your current assignment. For example, for Lab 1, you would select the `lab01` directory inside your `sp24-s***` repo.
- 3 Navigate to the **“File -> Project Structure”** menu, and make sure you are in the **Project** tab. Set your project SDK to your installed Java version. If 17 or higher isn’t available in the dropdown, make sure you downloaded and installed Java completely.



- 4 Still in the **Project** tab, set the Project Language Level to “17 - Sealed types, always-strict floating-point semantics”.

At this point, the Project tab should look something like this:

Project
Default settings for all modules. Configure these parameters for each module on the module page as needed.

Name:

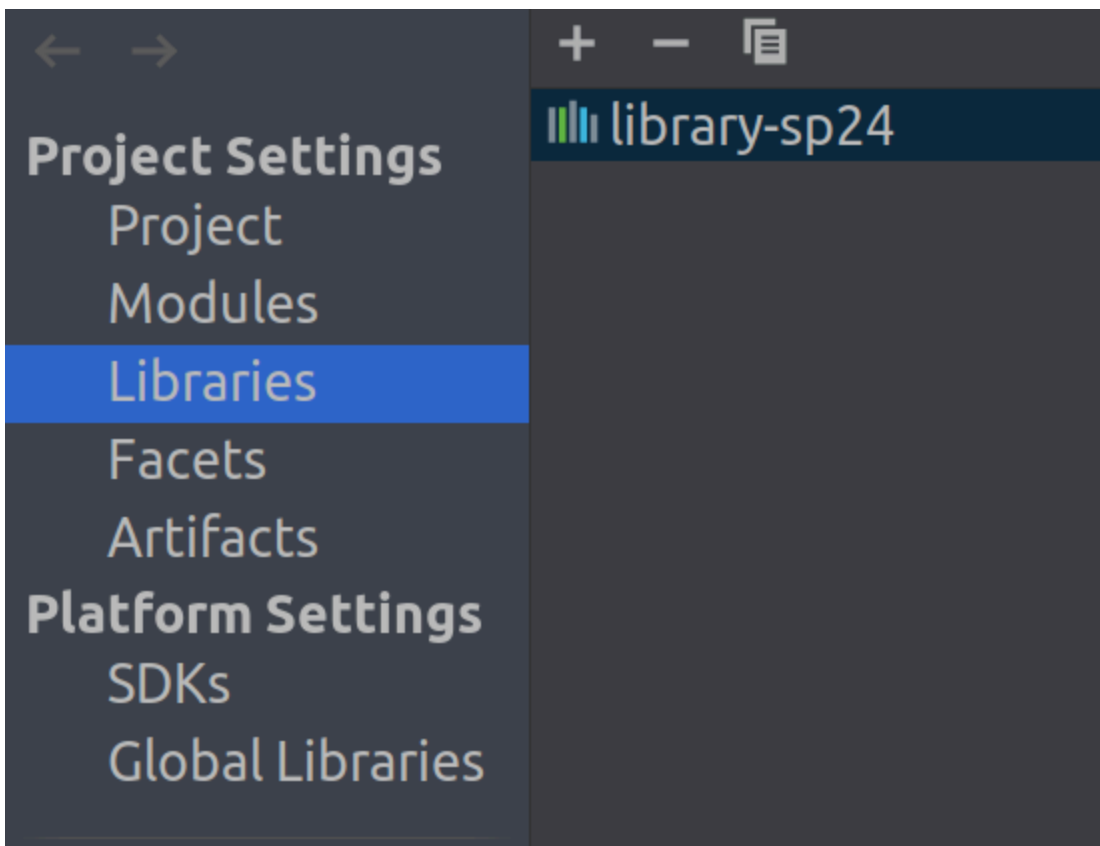
SDK:

Language level:

Compiler output:

Used for module subdirectories, Production and Test directories for the corresponding sources.

- The SDK is set to Java 17 or higher
 - The Language level is at least 17, and at most the SDK.
 - The Compiler output is filled in, and is set to the assignment directory, followed by `out`
- 5 Still in Project Structure, go to the **Libraries** tab. Click the "+ -> Java" button, then navigate to `library-sp24`, select the folder, and click "Ok".



- 6 Click "Ok" to apply your settings and leave Project Structure.

At this point, if things have been configured correctly:

- Each Java file should have a blue circle next to its name.
- When you open any file, none of the code should be highlighted in red.

Submitting to Gradescope

- 1 Add your assignment directory using `git add` . For example, for Lab 1, from your repo root (`sp24-***`) you would use `git add lab01` . From the assignment directory, you could use `git add .` .
- 2 Commit the files using `git commit -m "<commit message here>"` . The commit message is required. For example, `git commit -m "Finished Lab 1"` .
- 3 Push your code to your remote repository with `git push origin main` .
- 4 Open the assignment on Gradescope. Select Github, then your `sp24-s***` repository and the `main` branch, then submit your assignment. You will receive a confirmation email, and the autograder will run automatically.

Gradescope will use the latest version of your code from Github. **If you think that Gradescope isn't grading the right code, check that you have added, committed, and pushed with** `git status` .

If you've gotten yourself into a situation where you're unable to push for some reason, see [Git WTFS](#).