

## CPT108: Data Structures and Algorithms

### Import an Existing Gradle Project into an IDE

Gradle<sup>1</sup> is a build automation tool for multi-language software development. It helps teams build, automate and deliver software by controlling the development process in tasks such as compilation, packaging to testing, deployment and publishing.



This document is for you to get familiar with importing an [\*existing\*](#) Gradle project into an Integrated Development Environment (IDE), such as Eclipse and IntelliJ IDEA.

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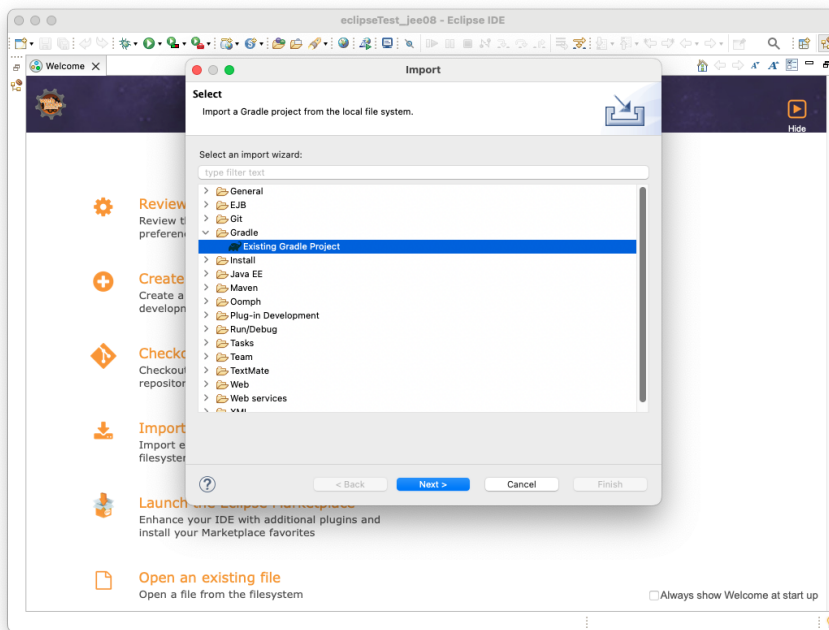
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<sup>1</sup>Gradle: <http://gradle.org>

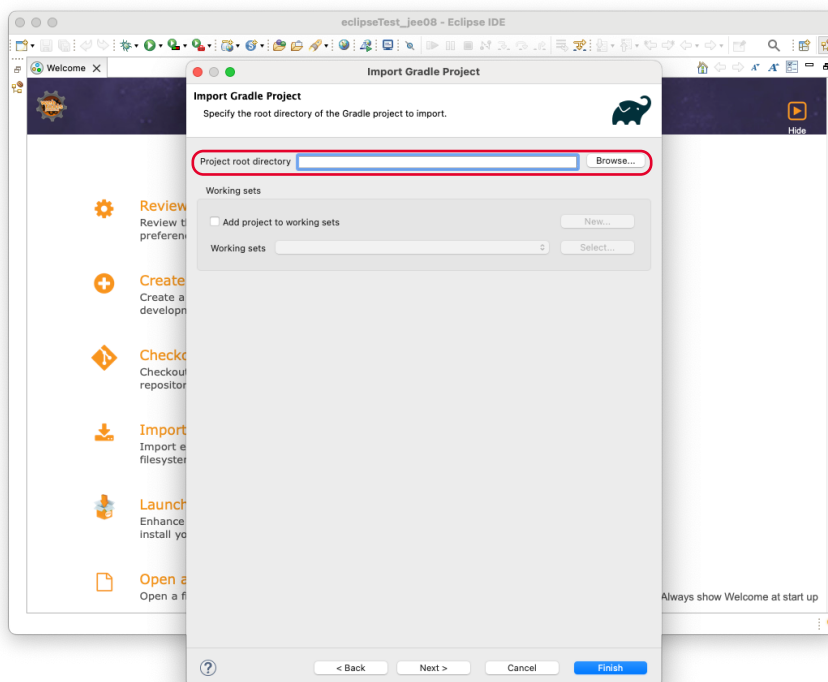
# 1 Eclipse

## Steps

1. Create a project workspace in Eclipse as usual.
2. Select **File** > **Import** from the menu bar.
3. Choose **Existing Gradle Project**.



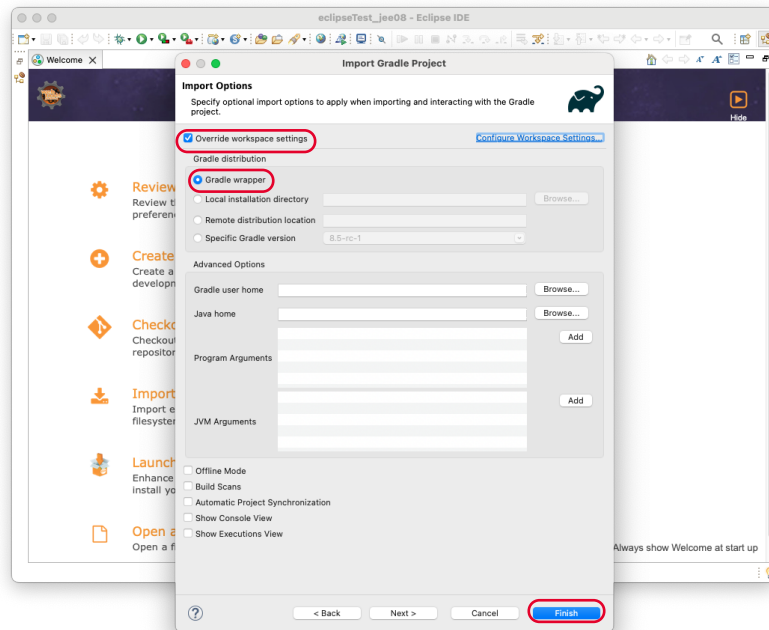
4. Select the <<project root directory>> i.e., directory that contains the file "build.gradle", and click on **Next**.



## 5. Two options.

## Option I: Using Gradle wrapper.

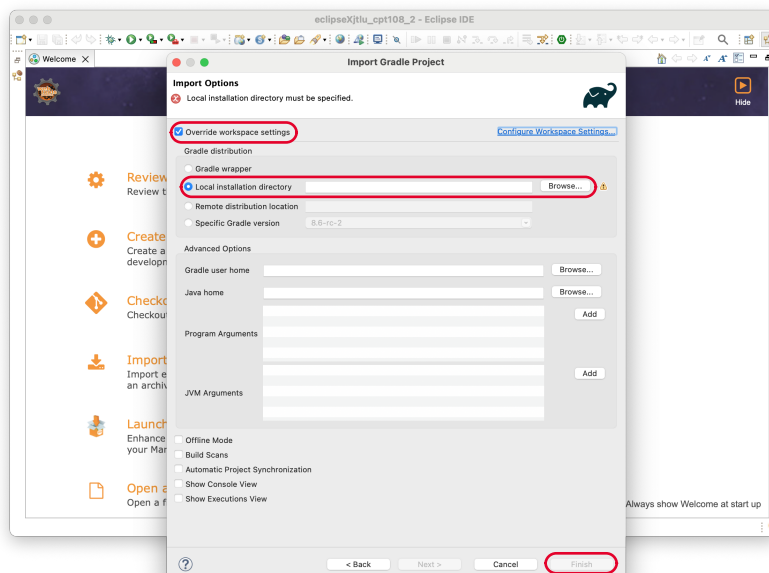
Select **Override workspace settings** and **Gradle wrapper**, and then click **Next**.



## Option II: Using Gradle local installation.

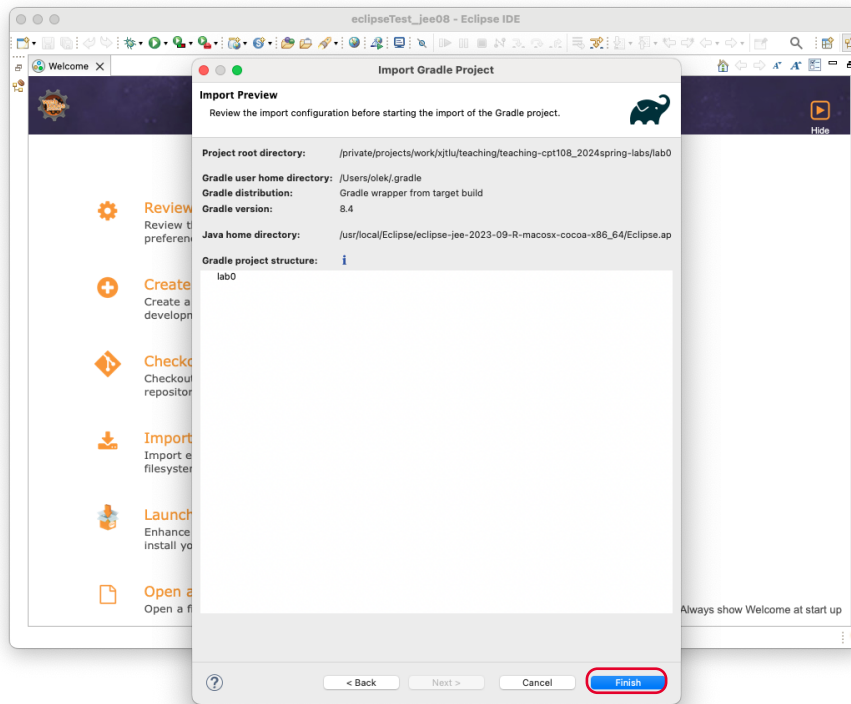
Select **Override workspace settings** and **Local installation directory**. Click **Browse** and select the Gradle installation path on your machine, and then click **Next**.

If you are at SC464, the Gradle installation path is: C:\Gradle\gradle8.5.



Note that this step is very important while you are at *computer laboratories*.

6. Finally, click **Finish** and the project will be imported into Eclipse.



In some occasions, after imported the project into Eclipse, you may encounter errors when running your code inside Eclipse.

You may be able to resolve the issue by executing the following command.

- Execute `./gradlew eclipse` in the terminal (inside the project folder), and restart Eclipse.



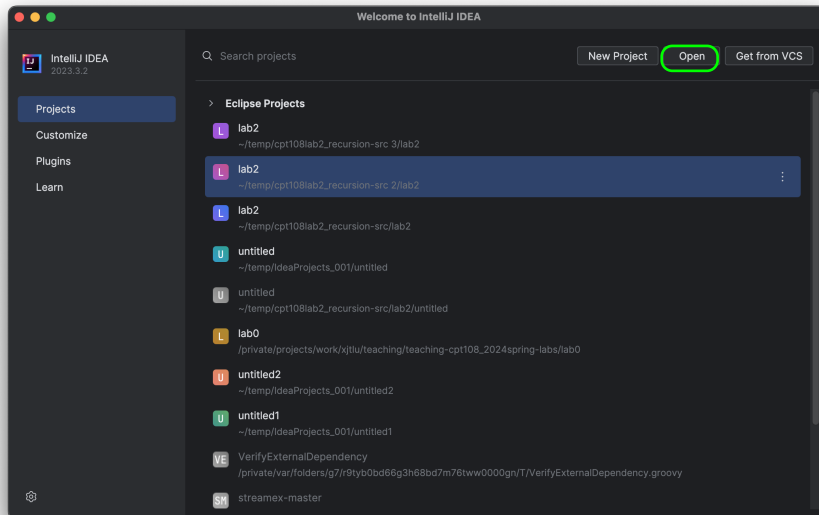
Details about Eclipse Gradle plugin can be found in:

[https://docs.gradle.org/current/userguide/eclipse\\_plugin.html](https://docs.gradle.org/current/userguide/eclipse_plugin.html)

## 2 IntelliJ IDEA

### Steps

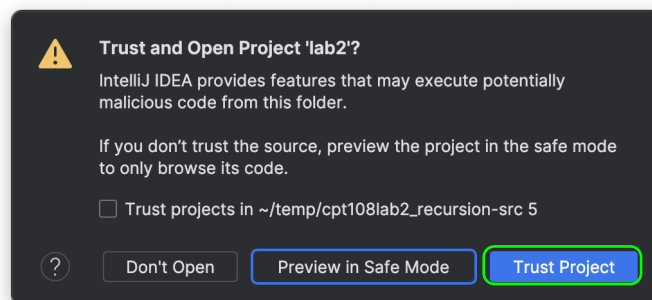
1. If there is no project current opened in IntelliJ IDEA, click **Open** on the welcome screen, or select **File** > **Open** from the main menu if a project is opened.



2. In the dialog that opens, select the directory containing a Gradle project i.e., directory that contains the file “build.gradle”, and click **OK**.

IntelliJ IDEA then opens and synchronizes the project in the IDE.

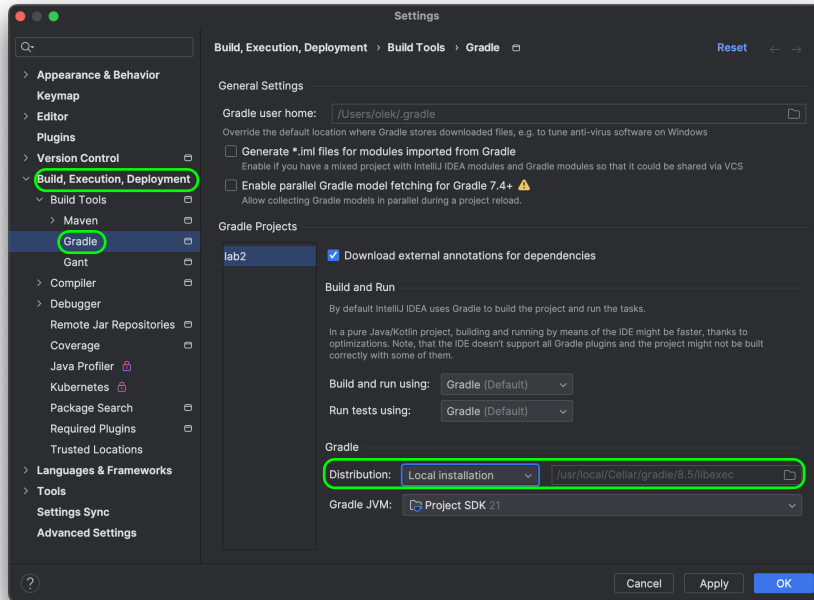
If ask whether to “Trust and Open Project”, select **Trust Project** as shown in the figure below.



3. After IntelliJ IDEA has completed loading the project, select **Settings** **Build, Execution, Deployment** **Build Tools** **Gradle**.

Then, select **Local installation** in the **Distribution** box, and enter or select the Gradle installation path on your machine in the box provided.

If you are at SC464, the Gradle installation path is: `C:\Gradle\gradle8.5`.



4. You may need to *restart* IntelliJ IDEA if the Gradle plugin is not working.



Note that this final step is very important while you are at *computer laboratories*.



Details about IntelliJ IDEA Gradle plugin can be found in:

<https://www.jetbrains.com/help/idea/gradle.html>