Computer Programming 143

Additional Document 1 — Eclipse Projects

2016

Aim:

(a) Discuss method for creating an Eclipse project

(b) Method on how to backup an Eclipse project

(c) How to import an Eclipse project
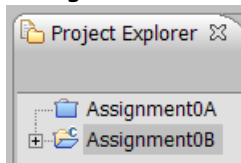
Opening the Eclipse IDE

Start Eclipse

- Once logged onto the computer, click on the **Start** button -> **All Programs** -> **Development & Programming** -> **eclipse C++**. Make sure you launch **eclipse C++** and not **Eclipse Java Mars** – the latter is set up for programming in Java.

- A **security warning** might appear. Just click the **Run** button.

- You will be asked to enter a path to a workspace folder. Enter the following to create a workspace for the subject: `H:\CP143`.

- If you are opening the workspace for the first time, Eclipse will take you to the **Welcome** screen. Click the workbench icon on the right of the screen to start working:
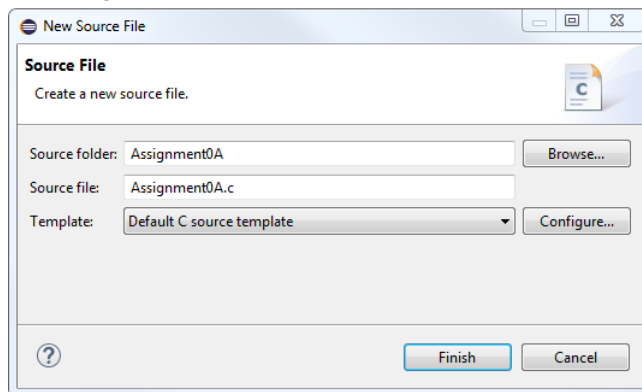
Creating an Eclipse Project

1. Create a new project.

   - Click **File** -> **New** -> **C Project**

   - Enter the project name (e.g. **Assignment0A** or **Assignment0B**), depending on which question you are doing.

   - Under **Project Type**, select **Executable** -> **Empty Project**.

   - Under **Toolchains**, select **MinGW GCC**. This selects the appropriate compiler for your project.

   - Click **Finish**.

   - This will create an empty C project named **Assignment0A** or **Assignment0B** as the project name, depending on which question you are doing.

   - The new project should be visible in the **Project Explorer** on the left of the screen. If there is more than one project in the workspace, make sure the one you want to work on is the only one that is open. Close all other open projects by right-clicking on each and clicking **Close**. In the example below, **Assignment0A** is closed, and **Assignment0B** is open.

   - To create a source file (.c file) within the project, right-click on the project in the **Project Explorer**, choose **New** -> **Source File**. In the **Source** field type in the project name with the addition of `.c` (e.g. in this case either `Assignment0A.c` or `Assignment0B.c`).
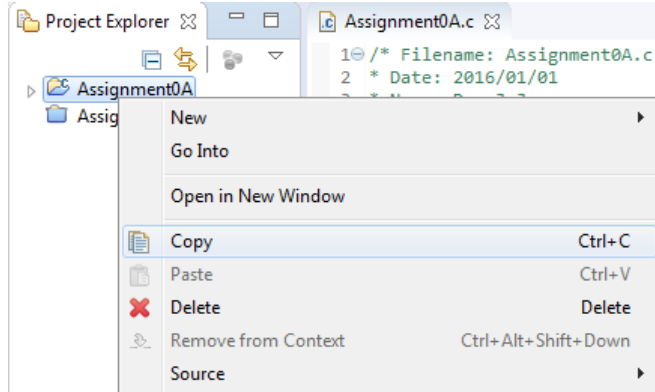

   - Open the newly created source file (.c) and populate the comment block to contain the file name, date, name of programmer, student number, declaration of own work and a description of what this source file does or contains (refer to the code extract in Assignment0A).
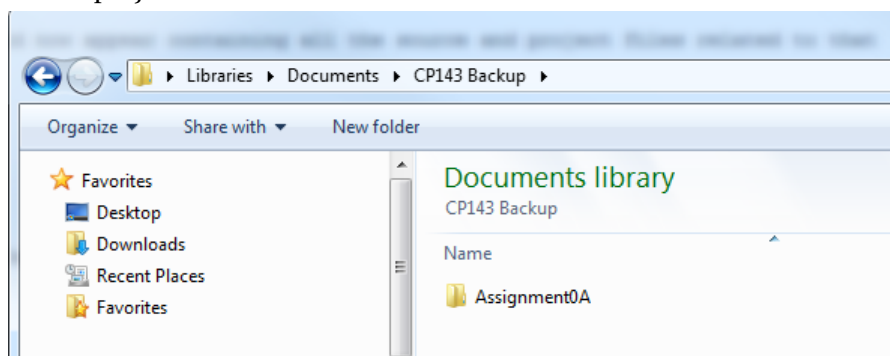
2. You can now start programming

Backup your Eclipse Project

1. When reminded to backup your project, the easiest way is to do the following:

   - In the **Project Explorer** on the left of the screen, right-click on the selected project and select **Copy**.
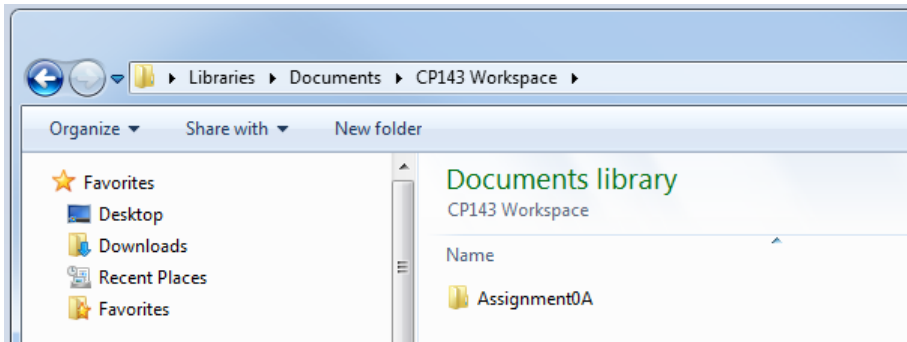

   - Go to your flash-drive to the folder where you store all the backup projects of Computer Programming 143, and simply right-click and select **Paste**.

   - A folder should now appear containing all the source and project files related to that project.
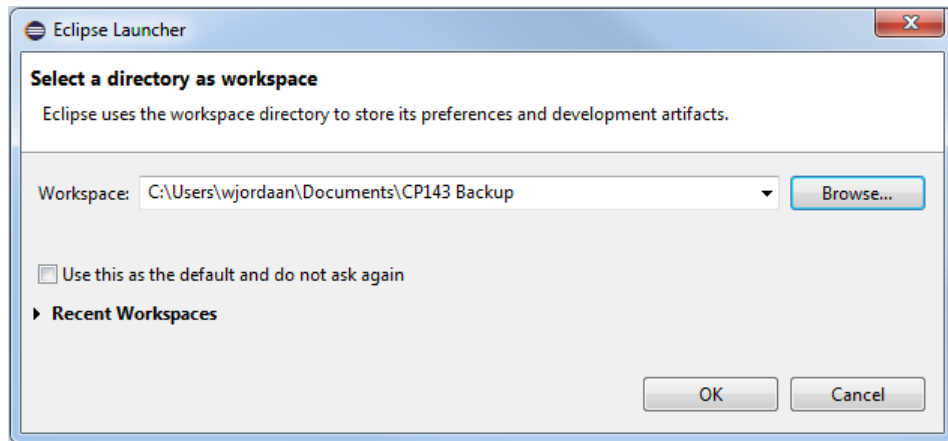
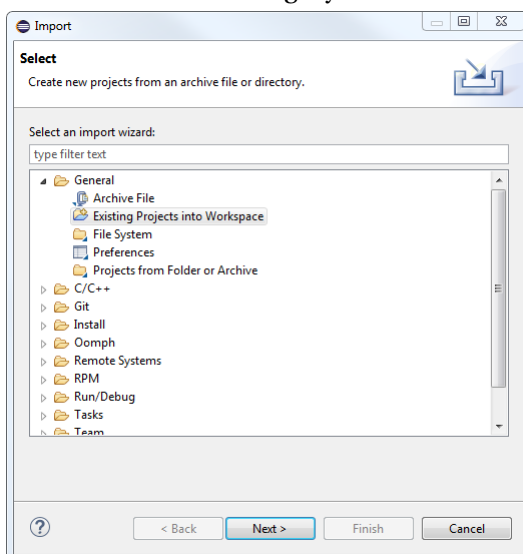# Importing your Eclipse Project

1. To copy a project from your flash-drive to your workspace do the following:

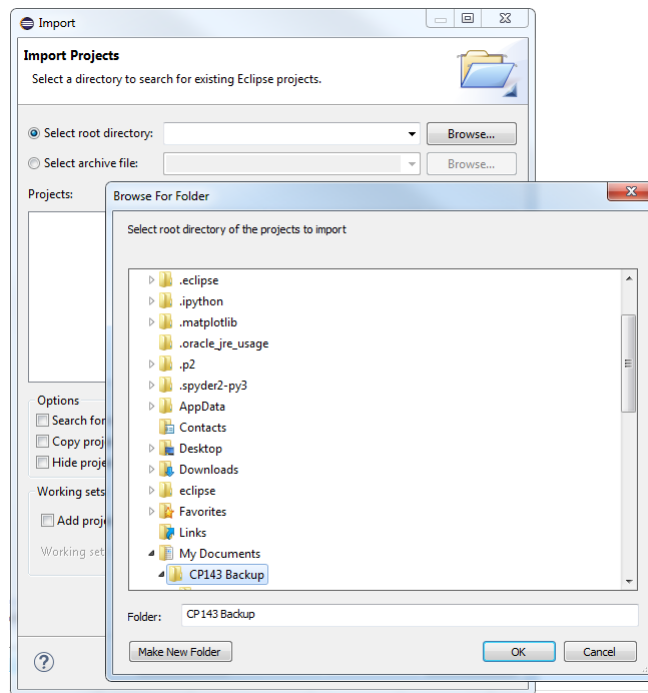   - Copy the entire project folder on your flash-drive to the workspace folder.

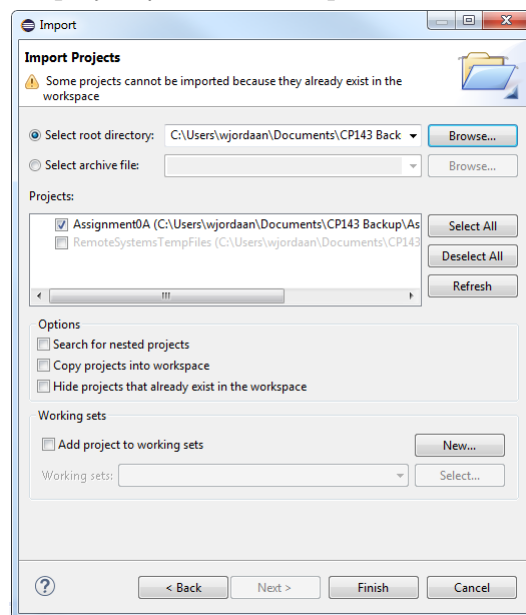   - Open Eclipse and set the workspace to the new workspace you created

   - Go to your workbench and then go to **File** -> **Import…**.
   - In the screen that appears select the **Existing Projects into Workspace** option under the **General** category and click on **Next**.

- Click on the **Browse** button in the top right of this window and select the workspace folder where you have placed the project in and then press **OK**.

- A list of all the projects within the current workspace should appear. Select the project you want to import and then simply press **Finish**.

- The project should now be in your workspace and ready for you to continue with your programming.