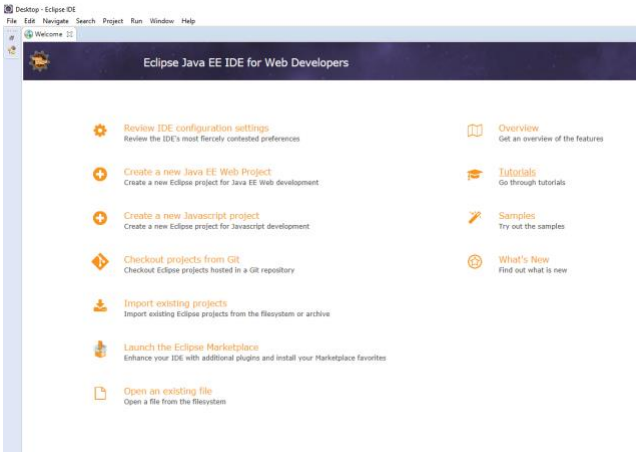
CSD 3464 – Assignment Submission Instructions

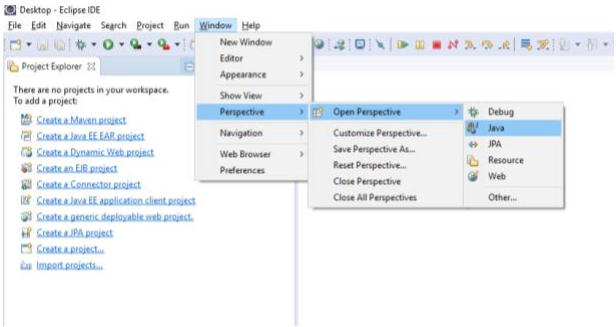
Note: This document assumes you have properly installed the Eclipse IDE for Enterprise Developers.

Instructions – Create a Java Project

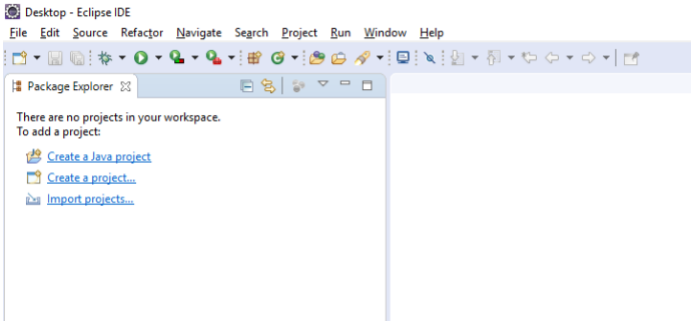
1. Start by opening the Eclipse IDE. You may see a screen similar to that below.



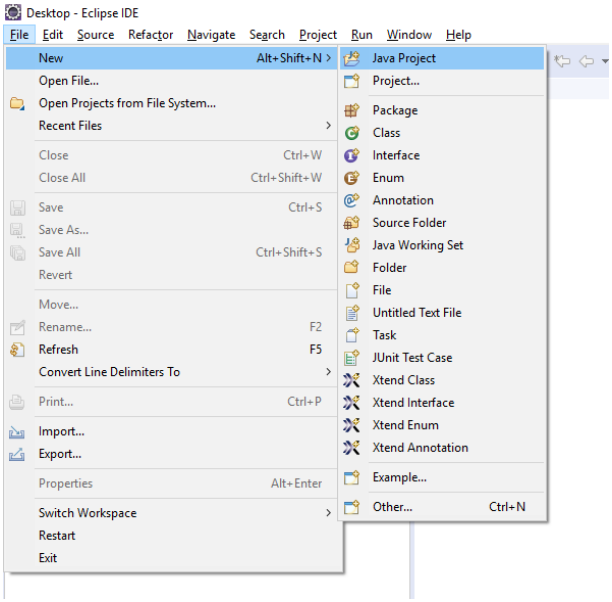
2. Close the tab by clicking the "X" icon next to "Welcome".
3. In the toolbar select "Window" → "Perspective" → "Open Perspective" → "Java".



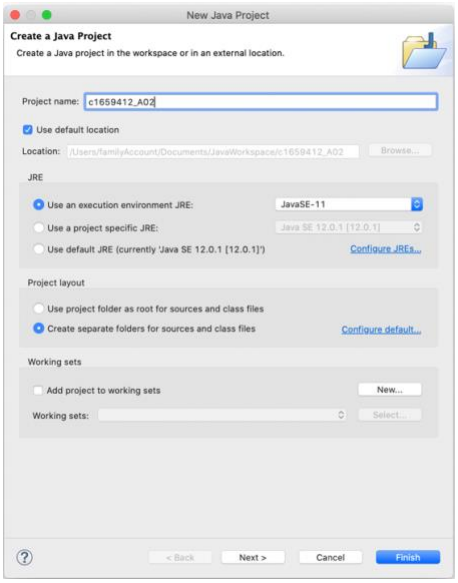
4. You are now in the Java perspective and should see the "Package Explorer". This pane will show any Java projects you have in your current Workspace.



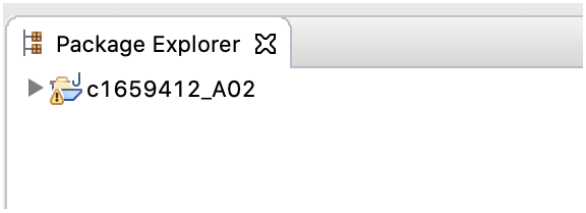
5. Create a Java Project. In the toolbar select "File" → "New" → "Java Project".



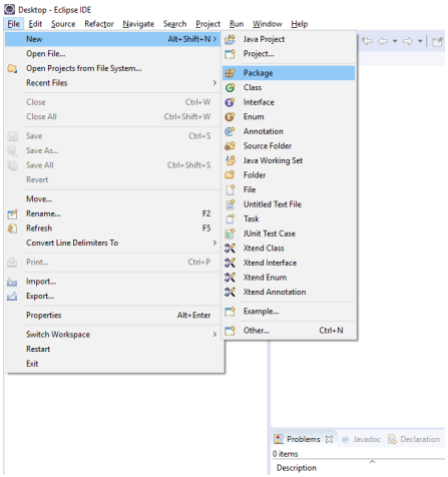
6. A new window will appear as shown below. Start by entering your project name. Your project name MUST be in the format c#######_A##. For example, if your c number is c1659412 and the assignment you are completing is Assignment 02, your project name should be **c1659412_A02**. Once your project name is entered click the "Finish" button.



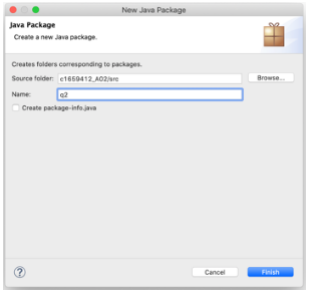
7. You should now see your newly created Java project in the Package Explorer.



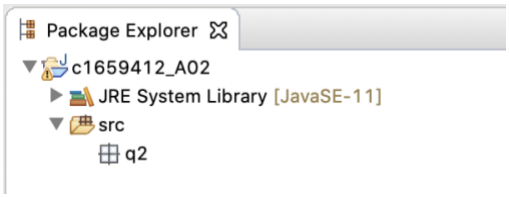
8. Select the newly created Project and then in the toolbar select "File" → "New" → "Package".



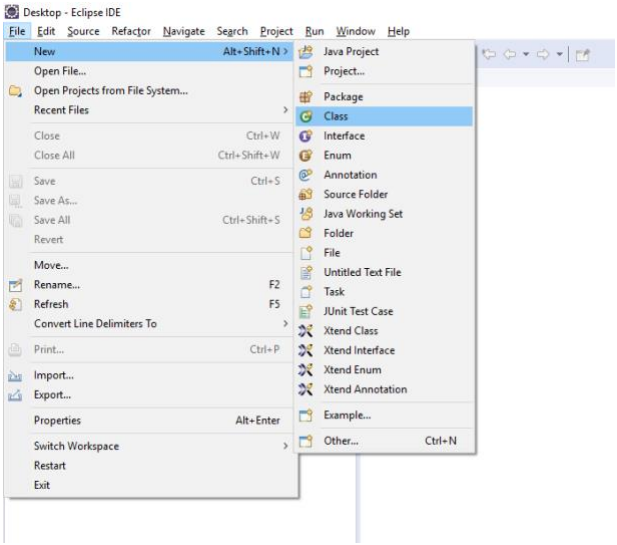
9. A new window will appear as shown below. Your **Package** name should be in the format q# where # is the question number you are completing; for example, for <u>question 2</u> from Assignment 02 your **Package** should be q2. Click “Finish” in the bottom right hand corner.



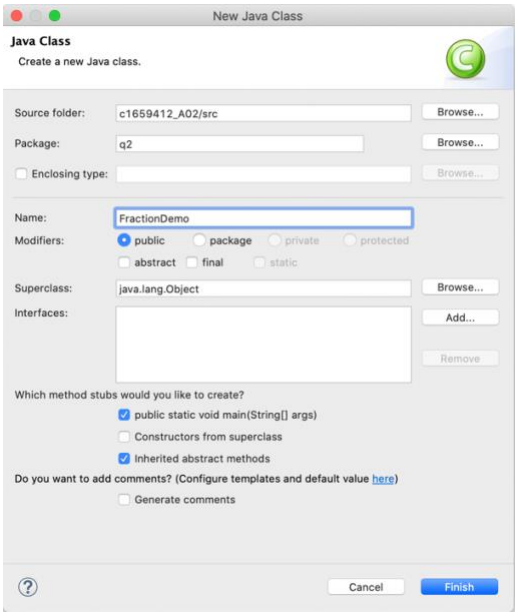
10. You should now see the newly created package in your Package Explorer.



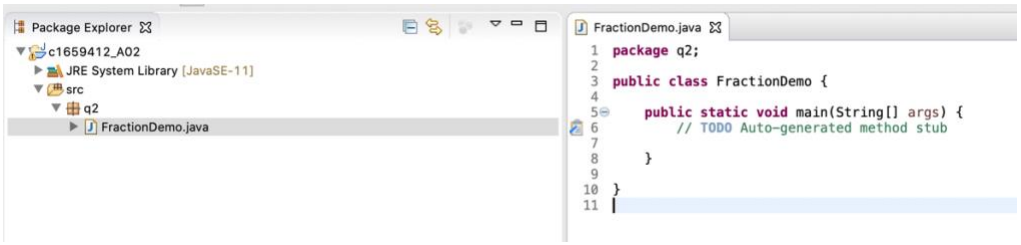
11. Select the newly created package and then in the toolbar select “File” → “New” → “Class”.



12. A new window will appear as shown below. Your class Name should be in the format provided in the provided assignment documents on the course website (D2L).
    - **Note:** From Assignment 02 on you will have multiple classes (.java files) inside a single package
13. In the same window as that for step 12 ensure that <u>if the class you are creating contains a main</u> the textbox "public static void main(String args[])" is selected. This will auto-generate the main method for class. Click "Finish" in the bottom right hand corner of the window.



14. You should now see the newly created Java Class in your Package Explorer.



15. In each Java you must include the following Java doc comment.

```
/**
 * <h1> Assignment 01 – Q2 (FractionDemo) </h1>
 * A class used to test the Fraction class' functionality
 * @author C1659412 – Aaron Sarson
 * @since 2020-01-14
 */
```

Note: You should replace the above information with your c#, name, assignment/question number, (class name), and date of submission. The lines between the first and @author should provide a general description of the class.

```java
package q2;

/**
 * <h1> Assignment 02- Q2 (FractionDemo) </h1>
 * A class used to test the Fraction class' functionality
 * @author C1659412 - Aaron Sarson
 * @since 2020-01-31
 */
public class FractionDemo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

    }

}
```

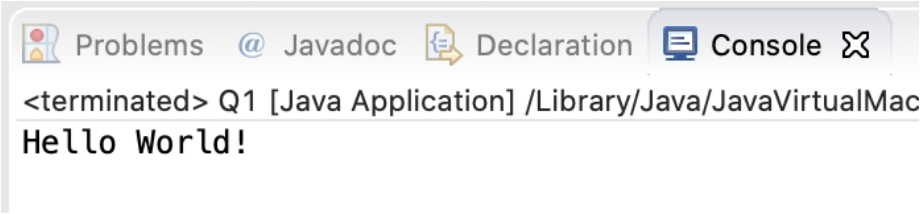
16. Delete the "// TODO Auto-generated method stub" comment from the Java class and replace it with the Java code required to answer the corresponding question.

FractionDemo.java

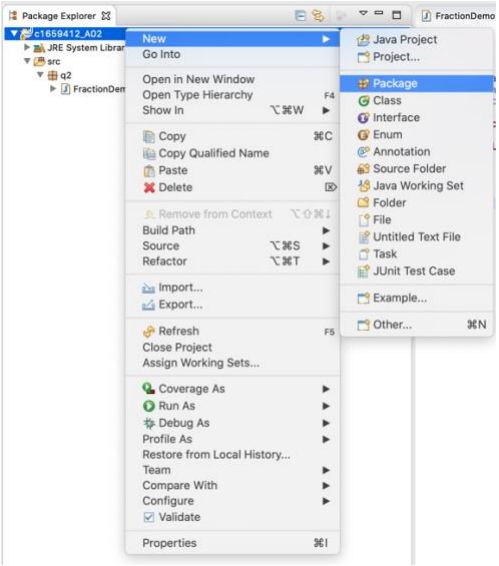
```java
package q2;

/**
 * <h1> Assignment 02- Q2 (FractionDemo) </h1>
 * A class used to test the Fraction class' functionality
 * @author C1659412 - Aaron Sarson
 * @since 2020-01-31
 */
public class FractionDemo {

    public static void main(String[] args) {
        System.out.println("Hello World!");
    }

}
```

17. To run the code from Step 16, select the green play button in the toolbar  . The first time the green play button is selected a new window will appear and you must select the Java class with the *main* method you would like to execute. Click "OK".

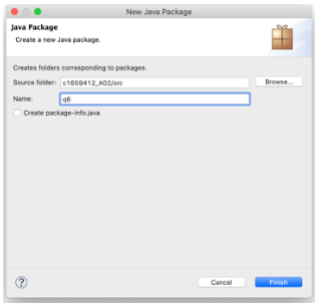
    This will cause the *main* method in the selected Java class to execute. Any output produced will be displayed to the console window at the bottom of the IDE.



18. Most assignments have more than one question to answer. To add more Java <u>packages</u>, right-click the **project** you would like to add an additional Java <u>package</u> to from the "Package Explorer" → "New" → "Package".

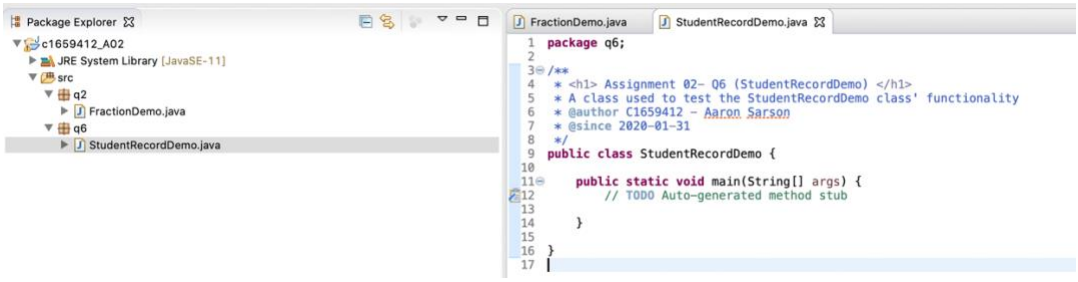


19. A new popup window will appear as shown below. You must specify the package **Name** in the format q# as done so previously in step 9. Select “Finish” in the bottom right hand corner of the window.



20. The new Java package should now appear in the Package Explorer.

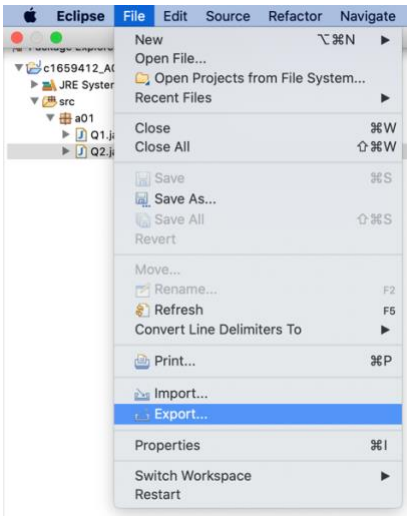
21. Repeat steps 11-17 and add the classes required to complete the question (i.e. Question 6) to the newly created package (i.e. q6).



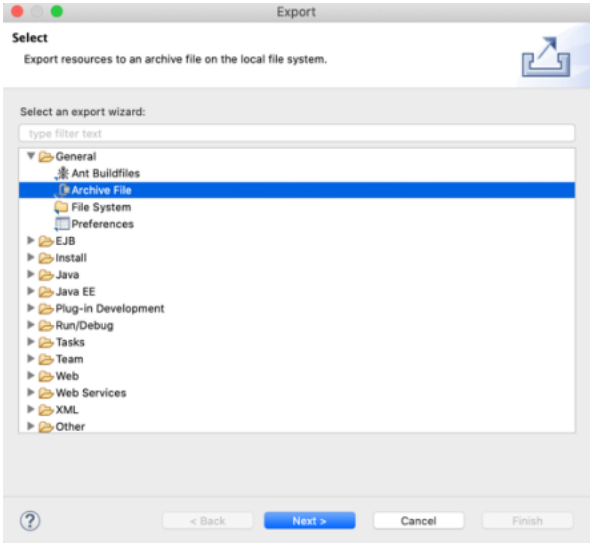
Instructions – Export Project

Once you have complete answering all the questions in the assignment you need to export the project. The exported project will be in the form of a zipped folder which will be submitted to the appropriate D2L drobox.

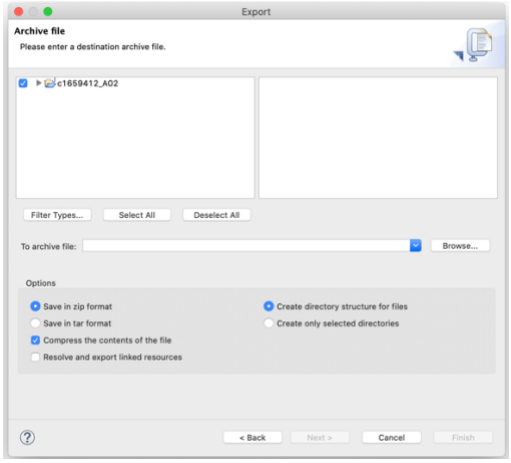
1. To export your completed project, select “File” → “Export” as shown below.



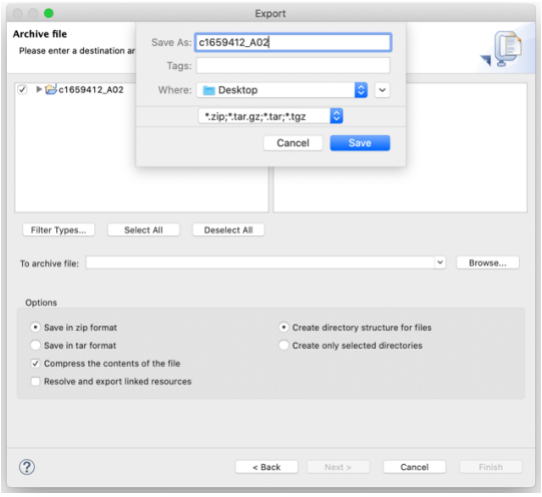
2. A new window will appear as show below. Select “General” → “Archive File” and then click the “Next >” button.



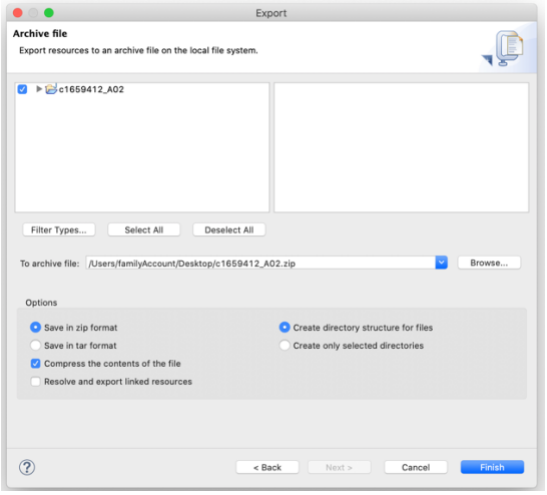
3. A new window will appear similar to that below. Ensure a check mark appears next to the Project you wish to export.



4. In the window shown below select “Browse” and navigate to the location where you wish to save your exported project. The name of the zipped folder should be in the format c#######_A## (same as step 6), see below image for example file name. Click the “Save” button.



5. Click the “Finish” button in the window below.



6. Submit the zipped folder to the appropriate D2L dropbox by the required due date.