

Eclipse Cheat Sheet

Beginner's guide on navigating through Eclipse

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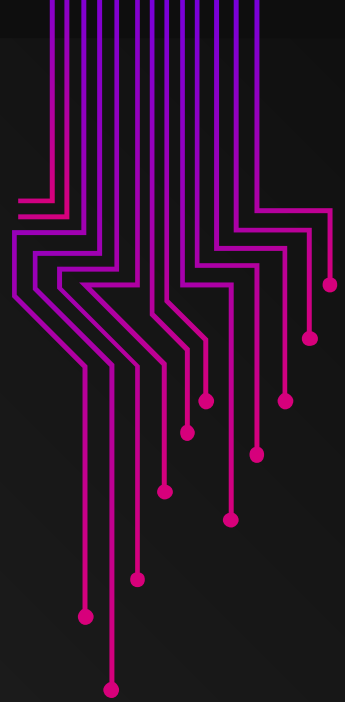


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01

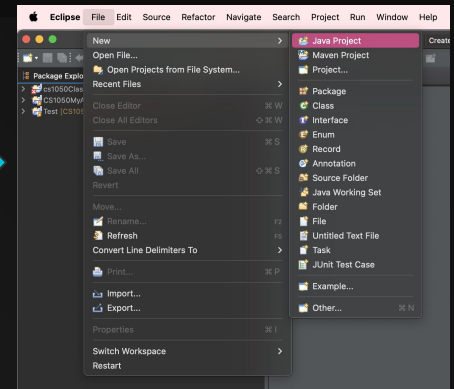
Creating a Project



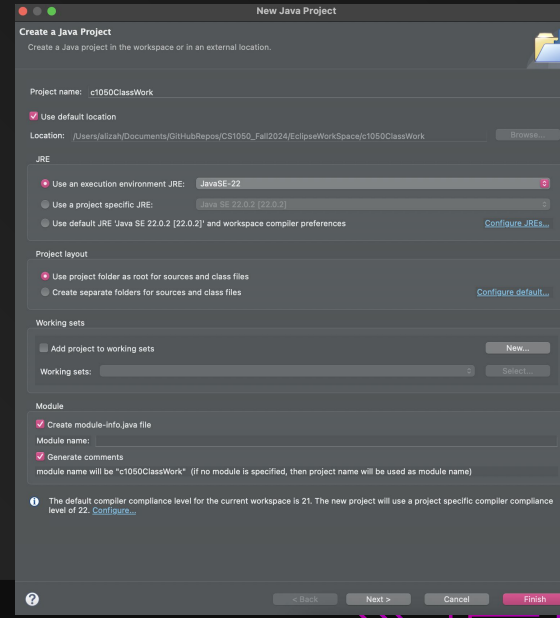
Steps:

1. Start a new project - click file > new > java project
2. Enter a name for your project (e.g., cs1050ClassWork)
3. Configure settings -
 - a. Checkmark "Use default location"
 - b. "Use an execution environment JRE" should be set to "JavaSE-22"
 - c. Project layout: checkmark "use project folder as root for sources and class files"
 - d. Module: checkmark "Create-module-info.java file" and "Generate comments"
4. Click finish to create the project
5. Check to make sure the project is in the package explorer window on the left

Step 1 reference image

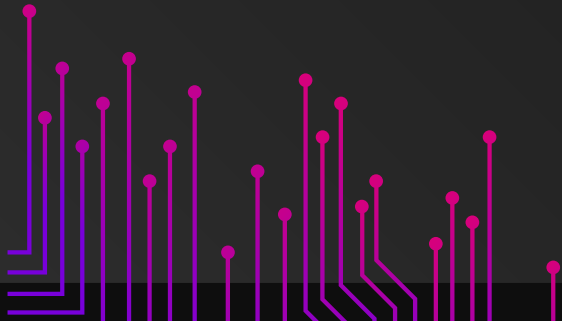


Step 3 reference image



02

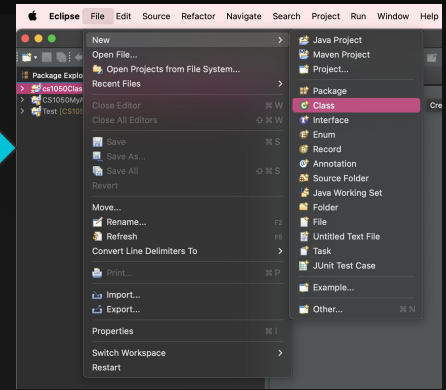
Creating a Class



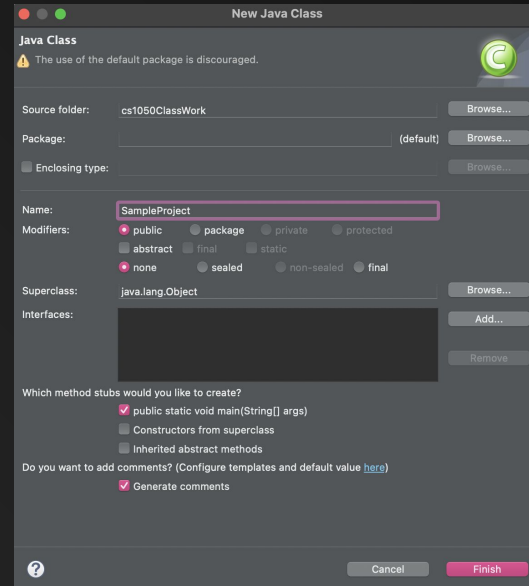
Steps:

1. Select the project folder you want to create it in - in the package explorer on the left, click on your project to highlight it
2. Create a new class - click file > new > class
3. Enter a name for your class (e.g., SampleProject)
4. Configure settings -
 - a. Source folder should be set, if not, select the project folder you want it to go in
 - b. Package should be empty, if not, delete the package
 - c. Modifiers: checkmark "public" and "package"
 - d. Method stubs: checkmark "public static void main(String[] args)"
 - e. Comments: checkmark "generate comments"
5. Click finish to create the class
6. Class is automatically opened and you can start coding!

Step 2 reference image

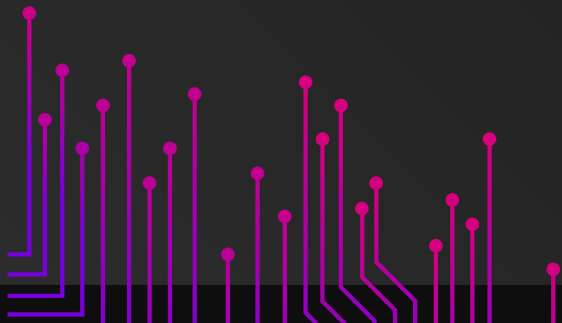


Step 4 reference image



03

Resetting Perspective



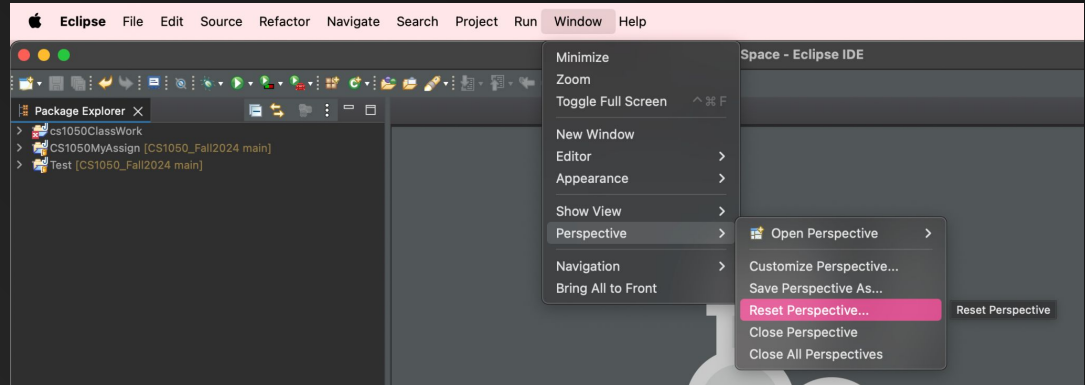
Steps:

1. Click window > perspective > reset perspective

Why you might want to do this:

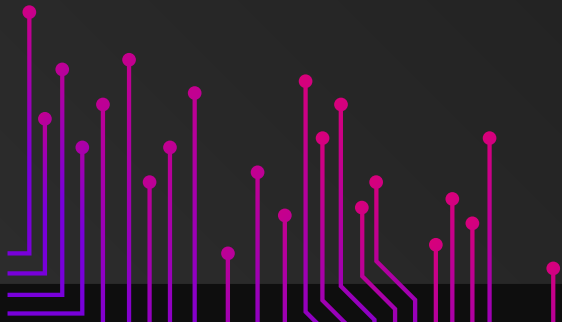
1. If you accidentally close a panel and want to bring it back
2. If important windows like the console or package explorer disappear
3. If you want to get out of the debugging window

Step 1 reference image



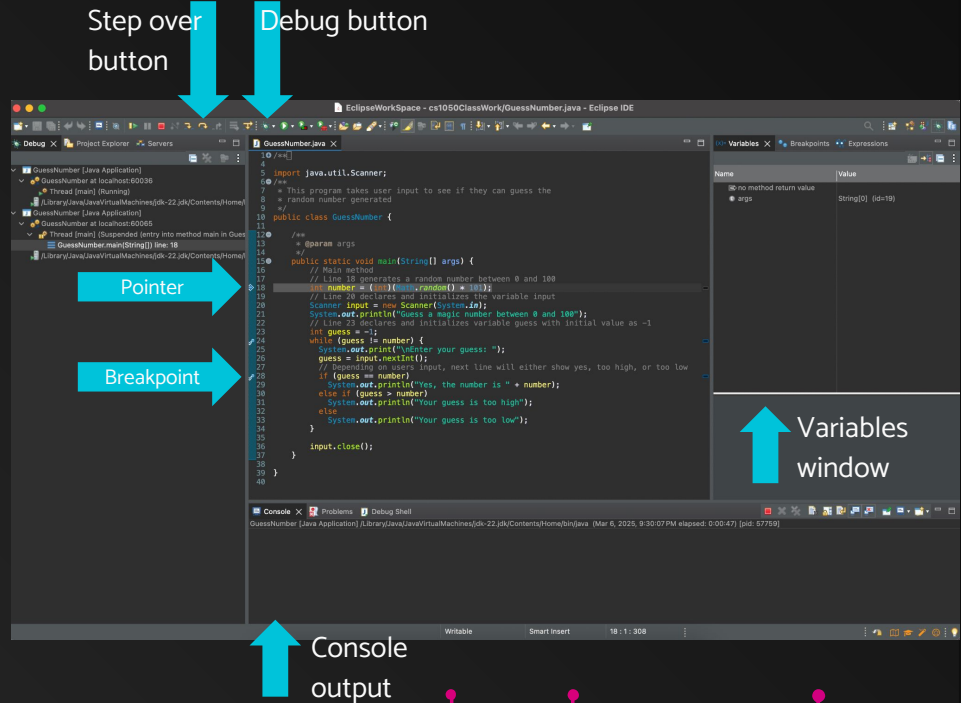
04

Debugging



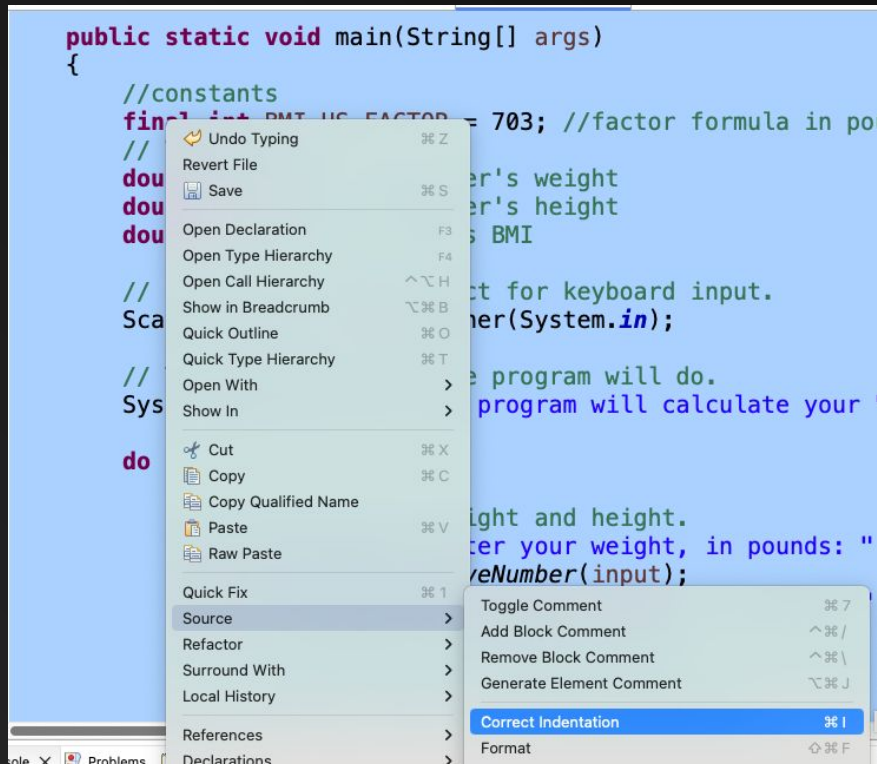
Key points:

1. To start a debugging session click the debug icon (a green bug) in the toolbar next to the run button
2. Breakpoints - we set breakpoints to pause the code execution so we can step through it ourselves to inspect variables and track other issues
 - a. To set a breakpoint, double click on the gutter (directly to the left of the line numbers) next to the line of code where you want to pause the execution.
 - b. A blue circle will appear next to the line, indicating that a breakpoint has been set
 - c. To get rid of the breakpoint, double-click on it and the blue dot will disappear
3. Step through code - we use the “step over” button to control the flow of the program and move through each line manually
4. The pointer tells us which line is to be executed next in the code
5. Variables window - we use this to track variable values and how they do or don't update when a line of code executes
6. Console output - it's also important to track what is being printed to the console including print statements and error messages



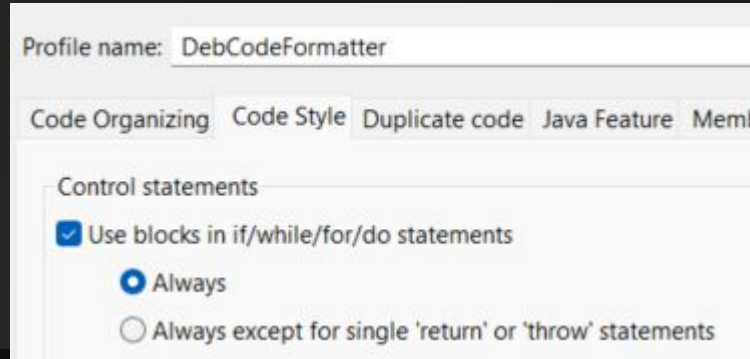
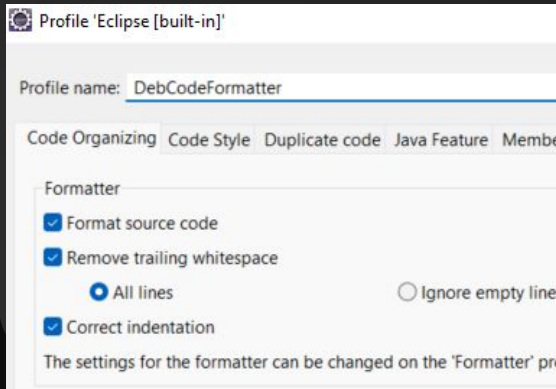
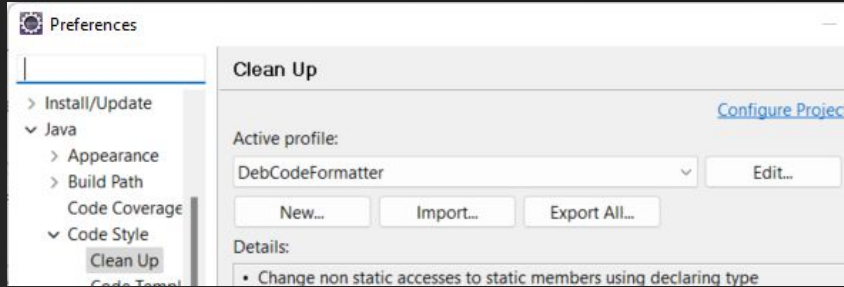
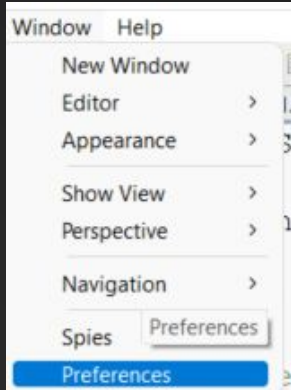
Formatting

1. Select all the code
2. Write click
3. Select source -> correct indentation

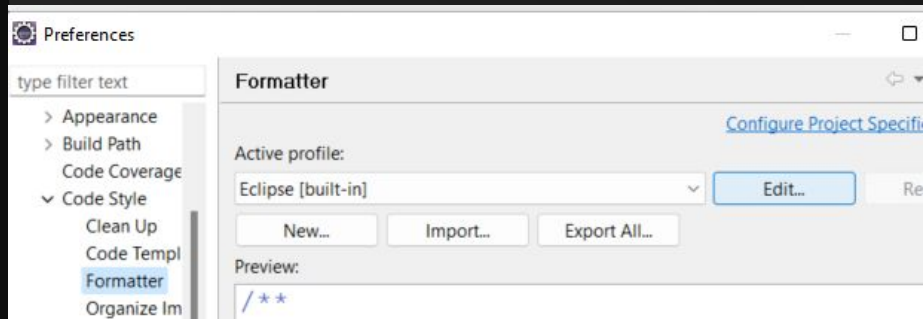


Clean Up Code

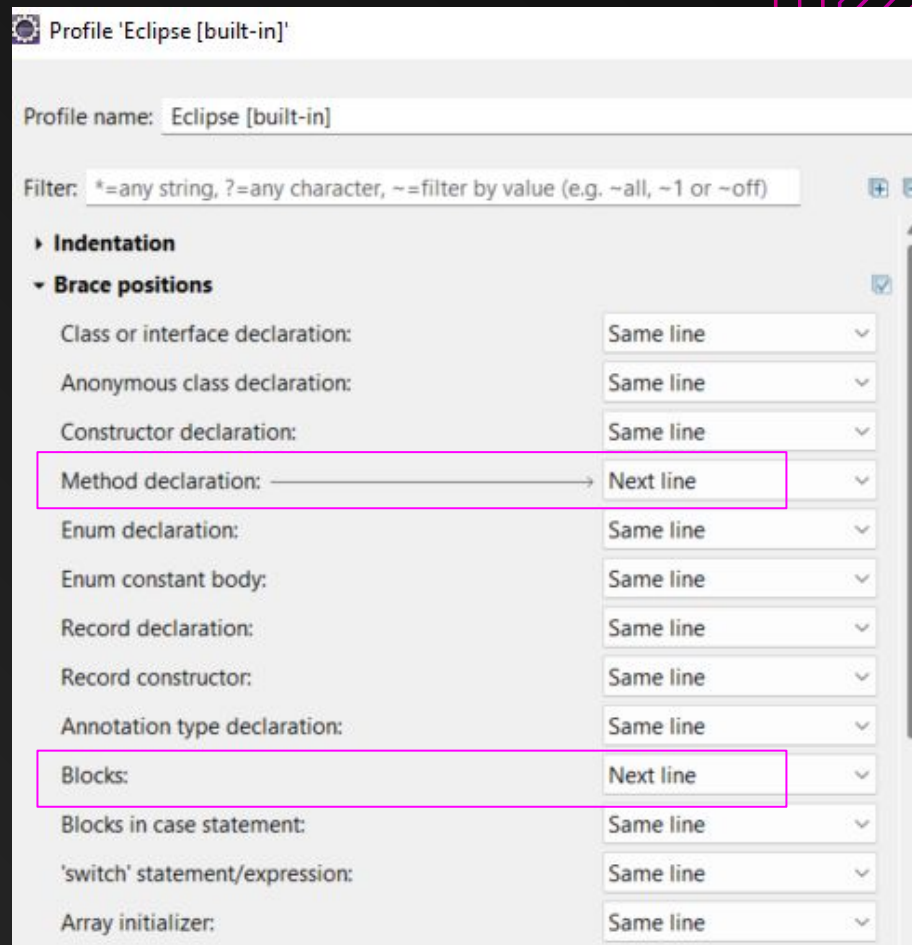
You can set up Eclipse to clean up your code.



Code Formatting

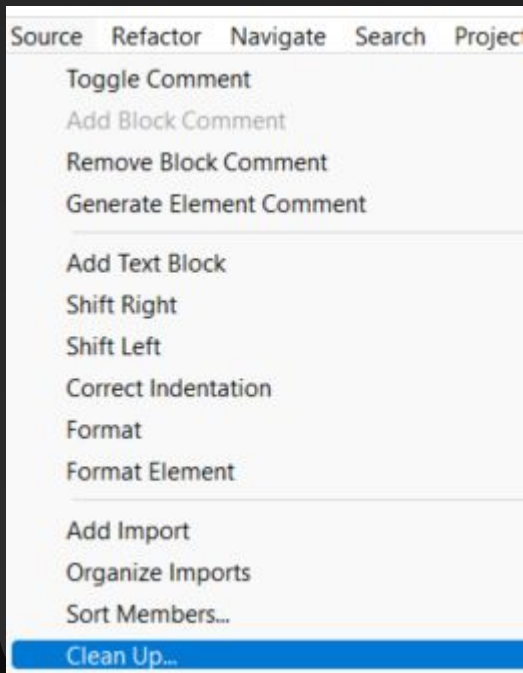


Go to formatter to change the brace positions.



Clean Up Code

Source -> Clean Up



Select the profile name you created.

