Basic Debugging Functionality

Step Over: Execute the next line of code. If the next line of code is a method, then execute that method.

Step Into: Execute the next line of code. If the next line of code is a method, then move into that method.

Step Out: Move out of the current method back to the calling method.

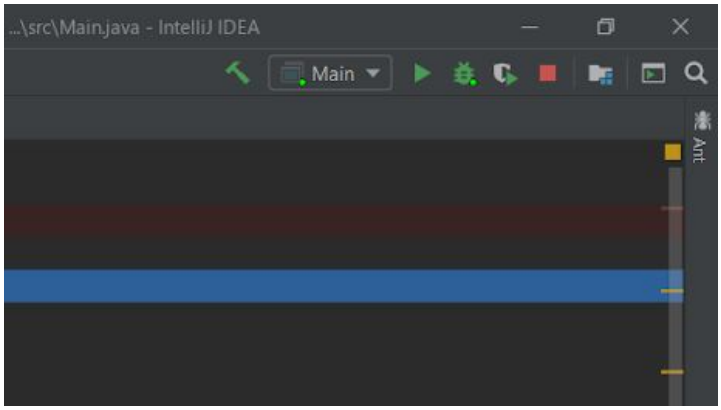
Pause: Pause the program at its current point in execution.

Resume: Resume running the program from the current point in execution. Execution will continue until there is an unhandled exception, a breakpoint is reached, or the program terminates.

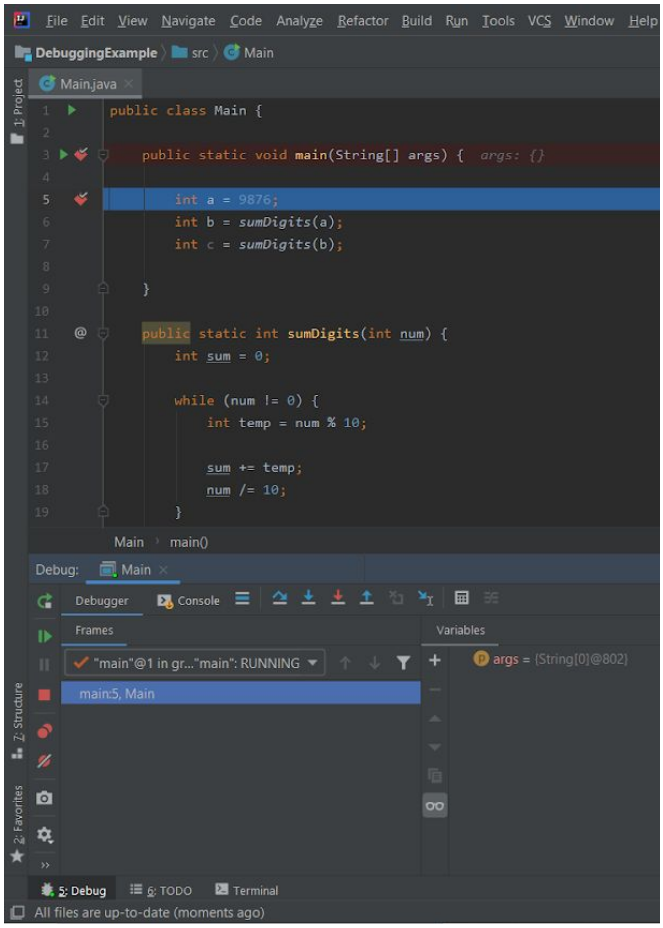
Visual Guide

1) To start the debugging process, click to the left of the main method to set a breakpoint.

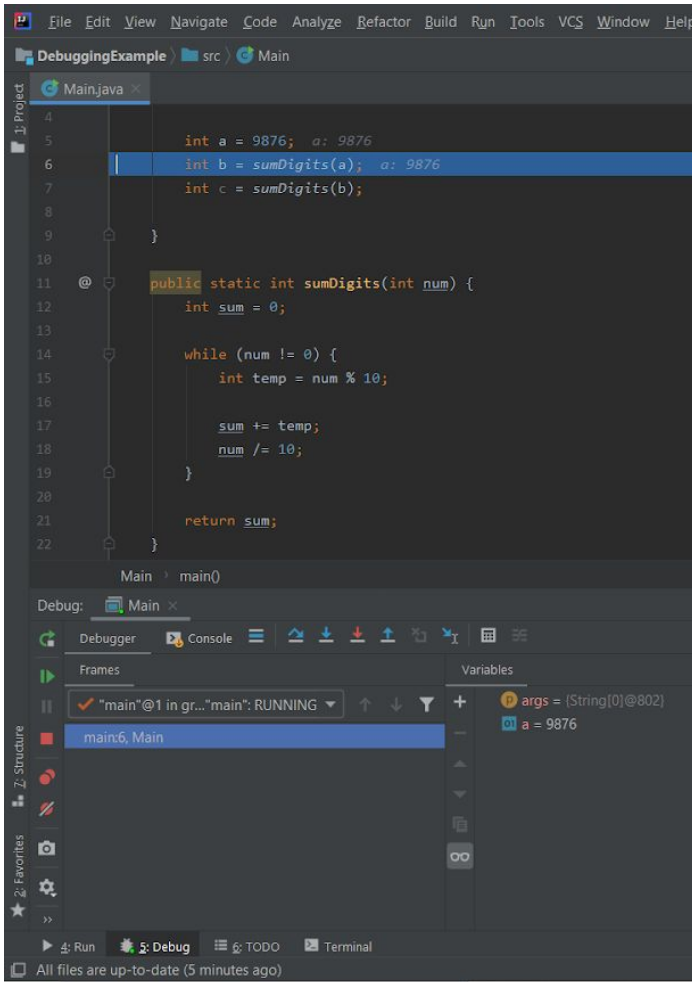
2) To begin debugging click on the bug icon to the right of the run button.



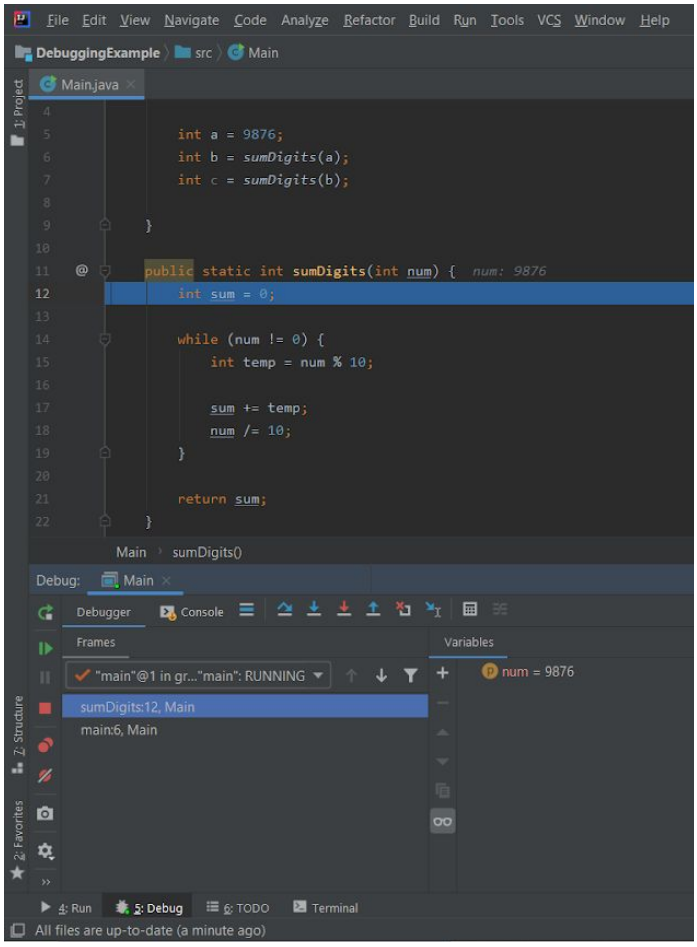
3) Since a breakpoint has been set on the main method, execution will be paused before running any of your code.



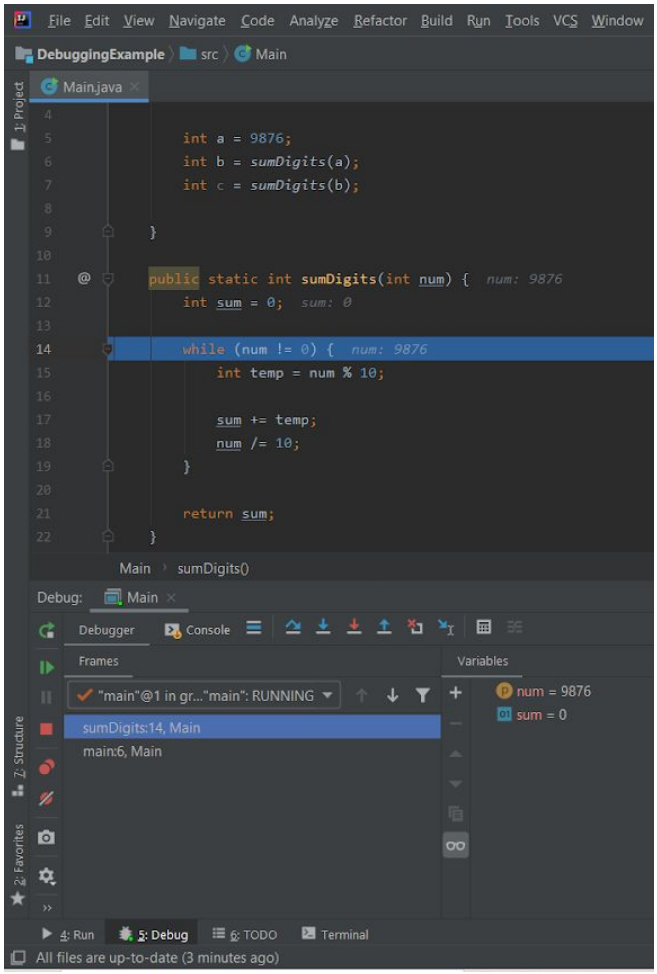
4) Using the "Step Into" functionality to advance to the next line of code yields the following results. This will allow you to see the value of variables that have been initialized up until this point.



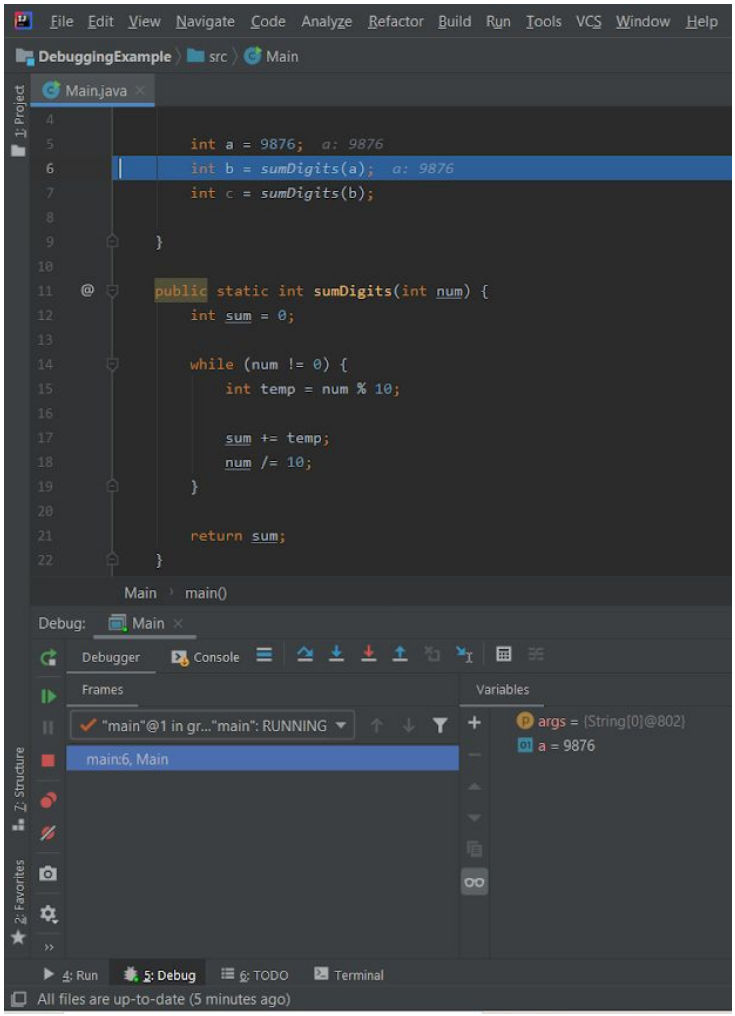
5) Step into will go into the method that is called and allow you to continue stepping through line by line.



6) You can continue to step through the code in this method and see how variables in this scope change down below in the variables section.



7) If you don't want to step through the rest of a method, you can use "Step Out" to move back to the calling function.



8) To execute a method call without stepping through it, use the "Step Over" functionality that the debugger provides.