

Saros Questions

These questions cover some of the essential basics for coding on Saros. Ensure that you answer as many as possible in the first week.

1.
 - (a) Explain the purpose of the Logger object that appears in most classes?
 - (b) How can you see the Logger's output?
 - (c) What are the different levels types of message the Logger gives in its output?
2.
 - (a) When looking at a function and you want to discover from where the function is called (i.e. what in the project has a reference to this function), what's the easiest way to do that using Eclipse?
 - (b) What keystroke allows brings up the "Open Resource" dialog, which you can use to quickly locate a Java file?
3.
 - (a) What is a Java annotation?
 - (b) What is the PicoContainer? (Hint: we didn't invent it - it is a project in its own right.)
 - (c) Notice that some objects are annotated with "@Inject". How does this annotation affect the object? (Specifically, concentrate on how the object can be used without apparently being instantiated.)
4.
 - (a) By default, where is source code external to Saros kept?
 - (b) In which package are balloon messages implemented?
5.
 - (a) What is Eclipse SWT?
 - (b) Give 5 example classes of SWT resources (i.e. classes that extend the Resource class).
 - (c) What is the method that must be called when you have finished using an SWT resource?
6.
 - (a) In your own words, explain what a java.lang.Runnable is.
 - (b) Operations on the GUI are often done using the run* methods in Util.java. For each of them, state: their blocking behaviour, and in which thread they should be run:
 - i. Util.runSafeASync

- ii. Util.runSafeSync
 - iii. Util.runSafeSWTASync
 - iv. Util.runSafeSWTSync
7. (a) For each scenario, decide which of four methods above you would choose and explain why:
- i. Connecting to the roster
 - ii. Displaying a pop-up window asking the user where to save an incoming file
 - iii. Giving a user a driver role