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) Describe the steps in taking part in a basic Saros session. Specifically:
 - i. How do you open the Saros views in Eclipse?
 - ii. How do you setup a user account (hint: we have our own server you can use at saros-con.imp.fu-berlin.de)?
 - iii. How do you share a project with other users?
 - iv. List 3 things you can do in your own workspace that the other participants can see in their own workspaces.
 - (b) Briefly discuss the difference between running the Saros plug-in, and running the Saros code in a runtime configuration?
- 2. (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 types of message the Logger gives in its output?
- 3. (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?
- 4. (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.)
- 5. (a) By default, where is source code external to Saros kept?
 - (b) In which package are balloon messages implemented?
- 6. (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?
- 7. (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
 - (c) 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