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C340 Concurrency

Lab Session 2 - Work Sheet

This lab session will give you practical experience on how to implement Java Threads.

Java source files end with the file name extension .java. The java compiler that creates machine independent bytecode is given a Java source file as a command line argument. It is invoked using `javac <file>.`

The on-line documentation of the java devekopment kit (jdk) and in particular of the Java API that is installed on the machines in lab B13 is available from `file:/usr/java/webdocs/release.html`

For the exercises in this lab you want to copy the source file from http://www.cs.ucl.ac.uk/staff/W.Emmerich/lectures/concurrency/classes/MyThreadDemo/ThreadDemo.html into an empty directory of yours.

Exercise 1:
We want to modify the behaviour of `ThreadDemo` such that there are three concurrent rotations. Define this modified behaviour in FSP

Exercise 2:
Modify the Java source of `ThreadDemo` that you downloaded from my web page so that it implements this modified behaviour.

Exercise 3:
The `ThreadDemo` applet and your modified version implement threads by inheriting from `Thread`. Implement `ThreadDemo` without this inheritance relationship.