## **3C03 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 development 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 Java and HTML source file from http://www.cs.ucl.ac.uk/staff/W.Emmerich/lectures/C340-98-99/classes/ThreadDemo 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 DisplayThread class in the ThreadDemo applet and your modified version implement threads by inheriting from Thread. Implement DisplayThread without this inheritance relationship.