## For the Lab Session 5

## Lab 7 exercises:

App1: Using Semaphore class and CyclicBarrier for T8

App2: Using ReentrantLock class and CountdownLatch for T8

What is the difference between the CyclicBarrier and Contdownlatch in execution? What did you observe?

**App3:** The *wait*()/*notify*() methods will be used for T6-P6-T7 and T6-P10-T12 synchronizations. The final synchronization from T11 will be implemented using the *CountDownLatch* class.

For CountdownLatch examples see:

https://docs.oracle.com/javase/8/docs/api/index.html?java/util/concurrent/CountDownLatch.html

**Note:** Don't forget to draw the statemachine and sequence diagrams for Apps (1,2, and 3).

**App5:** Draw the Petri-Net diagram for the provided statemachine diagram using a Petri Net drawing tool (you can use PetriPipe in Tools folder)