

IS F462 Network Programming
II semester 2014-15
Lab5 Exercise

Create a parent process P. P creates three processes A, B and C. Parent waits until all three exit. Consider shared memory segment of size 1KB created by process A and attached to processes A, B, C. These three processes want to access shared memory in the following ways:

- i. **A** reads from stdin and writes to shared memory.
- ii. **B** reads from shared memory, makes all letters to upper case and writes back into shared memory.
- iii. **C** reads from shared memory and prints to stdout.

Processes A,B and C want to access the shared memory segment in the order of steps i, ii, and iii and continue in loop until process A reads EOF from terminal.

Each process should print its pid and the action they are doing. Use semaphores for synchronizing.

Files Expected: sem.c and makefile.

Submit fullidno_lab5.zip file latest by 2:30 PM on 28th Feb on Nalanda. <http://nalanda>

Please submit only Nalanda portal. Please do not send by email. Any submission by email will be not be considered for evaluation.