



Birla Institute of Technology & Science, Pilani

Pilani Campus

I SEMESTER 2020-2021

LAB-1 EXERCISE

Course No.: IS F462

Deadline: 9th Sep 2020

Course Title: Network Programming

Maximum Marks: 20M

Write a program which does the following:

- Create N processes. N to be taken as an argument.
- Each even process waits for a signal. Even by pid.
- Every odd process sends SIGUSR1 signal to one of the even processes created prior to it. Even process is chosen randomly.
- When an even process receives more than M signals, it terminates itself after sending a SIGTERM followed by SIGKILL to the last process which has sent SIGUSR1 to it. M is taken as an argument.
- Every process should print its pid, pid of the sending process, and the number of signals received. Should print "Terminated Self" when exiting in case of even process. In case of odd process, print "Terminated by <pid>".

Files Expected: A tar file <idno>_lab1.tar containing signal.c and makefile to compile your program.

Upload in [Canvas](#).