II SEMESTER 2019-2020 LAB-1 EXERCISE

Course No.: IS F462 Course Title: Network Programming

Deadline: 4th Feb 2020 Maximum Marks: 20M

Let us consider N children to be created a by a process in the topology of a binary tree such a way that there are two children at each level except for the last level. N, A, S are taken as command line arguments.

- Any process can send a signal to anyone. A child knows its pid and parents pid. It derives a range of pids such that parent_pid-N <= pid <= own_pid+N. It sends signals to each process in that range.
- When a process receives a signal from parent it adds A points, if from a child it deducts S from its points and if from a sibling it deducts by S/2. Initially every process starts with N points. When the number of points reaches zero, the process exits. Process prints the signals received, from where and the points and exit message.

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

Upload in http://nalanda.bits-pilani.ac.in