



Birla Institute of Technology & Science, Pilani

Pilani Campus

II SEMESTER 2019-2020

LAB-2 EXERCISE

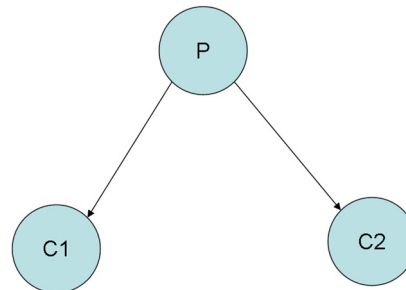
Course No.: IS F462

Deadline: 18th Feb 2020

Course Title: Network Programming

Maximum Marks: 20M

Write a C program that does the following.



1. Main program (P) takes two numbers m and n ($m \gg n$) as the command-line arguments
2. It sets up two pipes and creates two children C1 and C2.
3. C1 sends m to C2 and also sends SIGUSR1 to P. C2 receives m and sends (m/n) to C1 and also sends SIGUSR1 to P. The exchange of numbers stops when either C1 or C2 receive zero. Whichever process receives zero, it sends SIGUSR2 to P.
4. P keeps count of SIGUSR1. When it receives SIGUSR2 it prints as follows and then exits.

Number of messages exchanged between C1 and C2: <count of SIGUSR1>

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

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