



Birla Institute of Technology & Science, Pilani

Pilani Campus

II SEMESTER 2019-2020

LAB-3 EXERCISE

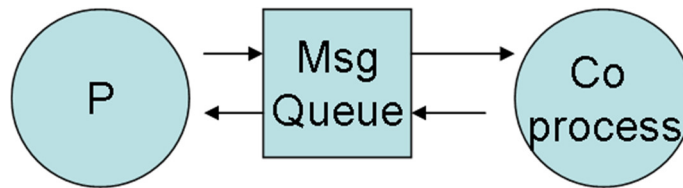
Course No.: IS F462

Deadline: 23rd Feb 2020

Course Title: Network Programming

Maximum Marks: 20M

Write a C program that does the following.



1. Coprocess does the following
 - Opens message queue
 - Prints msgQ id
 - Reads a message from message queue
 - Prints message type
 - Convert all the characters in the message to capital letters
 - Puts the message back into the message queue
2. Main program (P) works as follows
 - Forks a process
 - Execs co-process
 - Creates message queue
 - Print message queue id
 - Reads a string from stdin using fgets
 - Formats the message by adding type
 - Writes the message to message queue
 - Reads the message from message queue and prints to stdout

Note: P works in a loop until user gives EOF. Use only a single message queue. Decide on message types

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

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