Systems Software

Lab Work Week 5 IPC and Pipes

Part 1:

Using the pipe and fork commands, create a parent process that can send a message to a child.

Part 2:

Using the pipe and fork commands, create a child process that can send a message to its parent.

Part 3:

Using the popen command, recreate the examples from Part 1 and 2.

Part 4:

Using the pipe and fork commands, create a program that uses the pipe command for: ls -al|awk '{ print \$3 }'|sort -u

Part 5:

Create two processes that are not related that can communicate with each other. (Hint use FIFO Named Pipe)

Part 6:

Create a simple process that runs infinitely named myProcess Create a program using pipes to replicate the following to find the process id. ps aux | grep myProcess | grep -v grep | awk '{print \$2}'

Can we create a program to automate the killing of the process "myProcess"?