Lab 9

1. Write a C program that creates N child processes and gives each one an index (the first child will be 1, the second 2, etc.). Each child process will print its index, PID, and PPID (parent PID). N will be a command line argument.

2. Write a C program that creates a child process, which in turn creates another child process, and so on until the N-th generation, where N is a command line argument. Each child process will have an index (the child process will be 1, the grandchild process will be 2, and so on). Each process will print its index, PID, and PPID.

3. Write a C program that creates two child processes. Each child process generates a random number between 0 and 1000 and sends it via pipe to the parent. The parent will compare the numbers and send 1 to the process that generated the higher number, and -1 to the other process. If the numbers are equal, the parent sends 0 to both processes.

4. Write two C processes, A and B. Process A sends any command line arguments it receives via fifo to process B. Process B converts all the lowercase letters from the received strings to uppercase and prints them.