CS314
Lab 2

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180010041

Q1. Lab 2?

Answer :

Fork function is used to create a child process. The return value from this, is used to decide whether the current process is a parent or child. ***sleep*** is another useful function from unistd.h, stops program execution for a particular time limit. ***rand*** selects random numbers. Code verifies if the index is less than the string's length then creates a child process. Using id from fork, it checks if it is the parent process.

It took 29 lines of C code in my case but 4 extra unnecessary ‘enters’ can be removed making it of 25 lines.

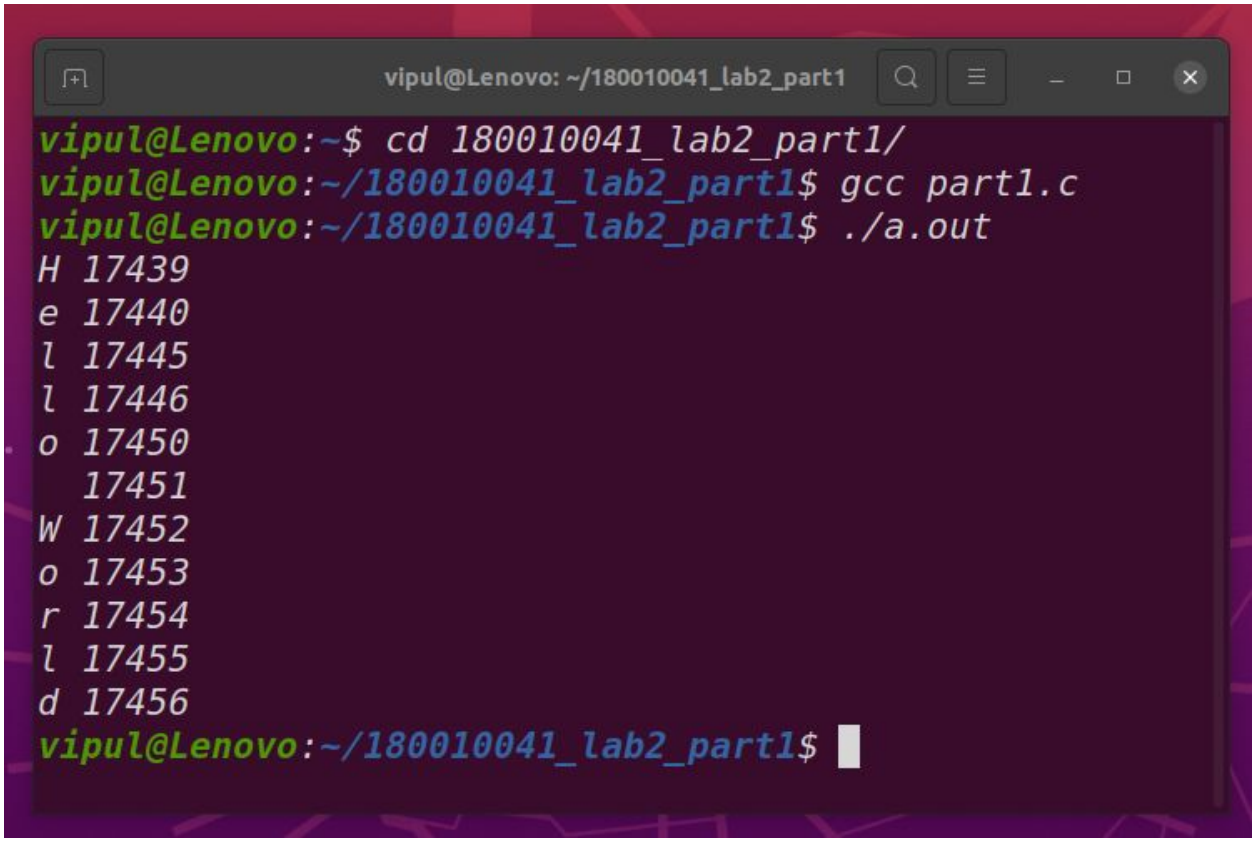
And for Part2 processes have 5 stages :

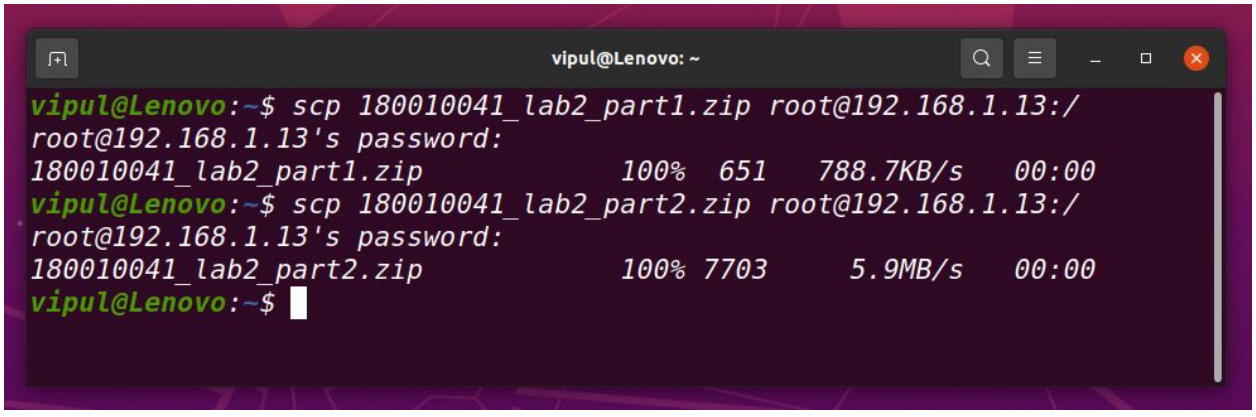
1. Start
2. Ready
3. Running
4. Waiting
5. Terminated

It is sequential, if PID - i is the last created process, next will be with PID - i+1. First will be 'init' process & subsequent processes will be child processes. Exits of processes could or could not be sequential.

Commands For Ubuntu Terminal:

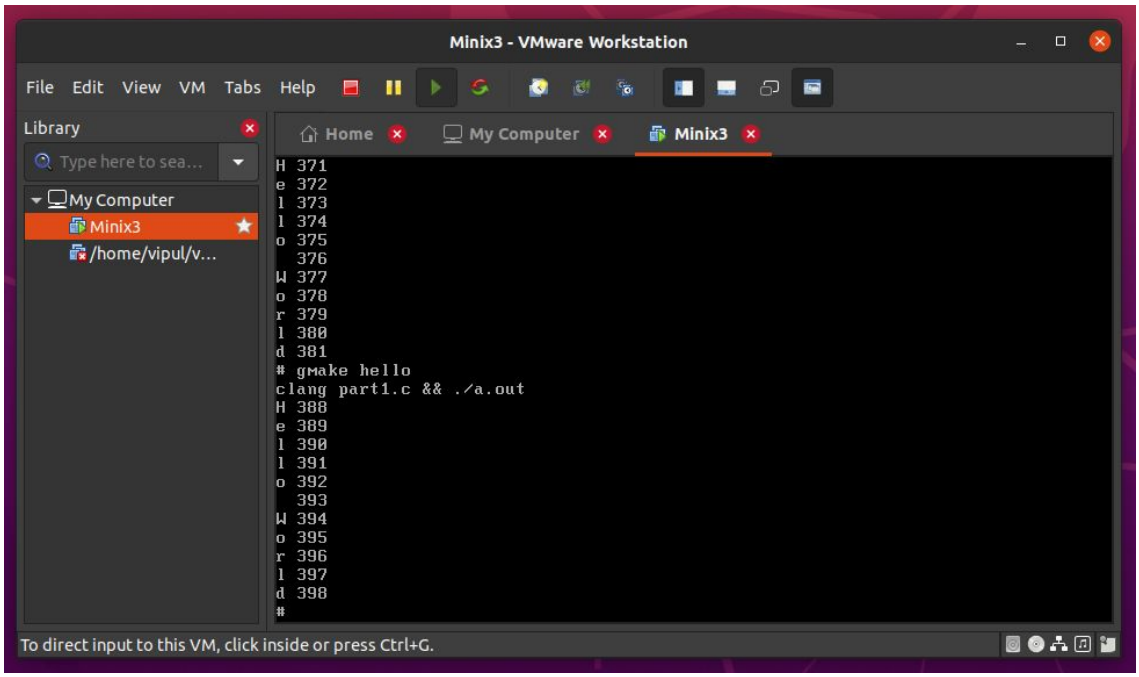
1. Gcc part1.c
2. scp 180010041_lab2_part1.zip root@192.168.1.13:/
3. scp 180010041_lab2_part2.zip root@192.168.1.13:/

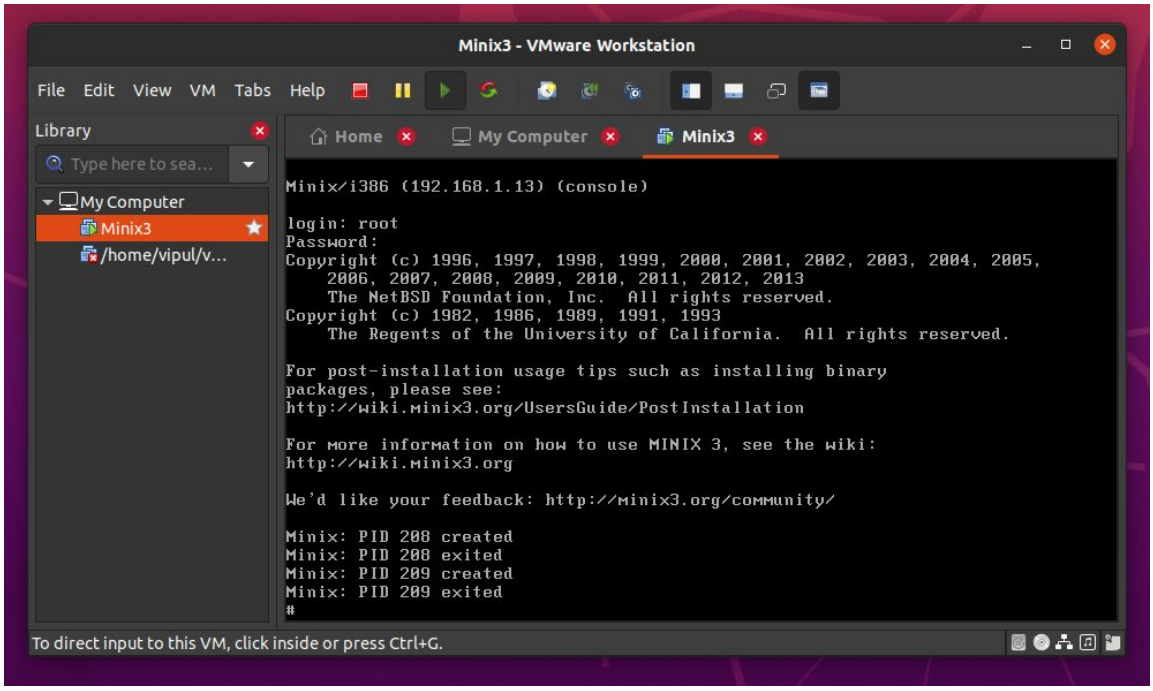




Commands For Minix Terminal:

1. unzip 180010041_lab2_part1.zip
2. unzip 180010041_lab2_part2.zip
3. gmake hello
4. ./run.sh





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