

Why the `ls` command chosen: Command `ls` lists directory contents and `-c` flag is for listing these contents (files) in an order from newest file to the oldest file. This attracts me because most of the cases the latest files are very important in any kind of works and this command ease to reach the latest files. Moreover, it becomes very easy to reach and compare the differences among consequently updated versions of a file to detect improvements or problems.

Process Hierarchy: There is a shell (main) process and in this process two child processes are called. First child process is responsible for the execution of `man` command and also writing outputs to the write-end of the pipe. Second child process is responsible for reading the output of the `man` command from the read-end of the pipe, and responsible for execution of `grep` command. After the execution of `grep` command, a file is created which is called *output.txt* and results of the `grep` command are written to this file.

In short, there is a parent process (shell process) which calls 2 child processes (`man` and `grep`) and a pipe is used to connect these two processes. Shell process waits child processes.