Course Code: CSE305   Corse Title: Computing Practicum - II

Date: 20.10.2022   Time: 11:00 AM

Instructions

- During the exam, students are allowed to use Linux Terminal but not Internet.
- Cheating Case = ZERO marks
- The test needs to be finished in 1 sheet only, no extra sheet will be provided.

Q1. Use ps to search for the init process by name.

Q2. What is the process id of the init process in your system?

Q3. What is the process id of your shell?

Q4. What is the parent process id of your shell?

Q5. Start two instances of the sleep 3342 in background.

Q6. Locate the process id of all sleep commands.

Q7. Initiate two new processes in your system. Display only those two sleep processes in top. Then quit top.

Q8. Use a standard kill to kill one of the sleep processes.

Q9. Use one command to kill all sleep processes.

Q10. Use top and ps to display information (pid, ppid, priority, nice value, ...) about a process.

Q11. Use ps to verify that the two new cat processes have a nice value. Use the -o and -C options of ps for this.

Q12. Use renice command to increase the nice value from 10 to 15. Notice the difference with the usual commands.

Q13. How to use ssh to run commands on a remote system?

Q14. Use the **jobs** command to verify whether you have any processes running in background.

Q15. Use **vi** to create a little text file. Suspend **vi** in background.

Q16. Verify with **jobs** that **vi** is suspended in background.

Q17. Start **find / > allfiles.txt 2>/dev/null** in foreground. Suspend it in background before it finishes.

Q18. Continue the **find** process in background (make sure it runs again).

Q19. Start two long **sleep** processes in background. Display all **jobs** in background. Use the **kill** command to suspend the last **sleep** process.

Q20. Put one of the **sleep** commands back in foreground.