Fast**National University of Computer & Emerging Sciences, Karachi  
Spring-2018 CS-Department**

**Practice Exercise**

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| **Course Code: CL205** | **Course Name: Operating Systems Lab** | |
| **Instructor Name: Sumaiyah Zahid** | | |
| **Student Roll No:** | | **Section:** |

Instructions

* Rules are made to break them, so you can invent yours and I’ll break.

**Time**: As long as you are alive **Max Marks:** Doesn’t matter

1. What is the output of $man man?
2. Change your system date to this 130207111630.
3. Create a file with timestamp 130207111630.
4. Create a read-only file in your home directory?
5. What is "chmod" command? What do you understand by this line “r-- -w- --x?
6. In a file word UNIX is appearing many times? How will you count number? **grep -c "Unix" filename**
7. Which command is correct #! /bin/bash #! /bin/sh #!/bin/rbash ?
8. When we use grep and when we use ^, $ and when we use \*, ?,[1bc]?
9. Change your name with usermod command.
10. What command clears the contents of your terminal display?
11. What is the command to delete a file?
12. What do you type in to move to the parent directory?
13. What command is used to change directories?
14. What command and parameter (or switch) will force a program to quit (even one running in the background)?
15. What command shows you disk partitions and percentage of disk space used?
16. What command shows you how long it has been since the server was rebooted?
17. What command shows you what directory you are in?
18. What command creates an empty directory?
19. What command displays your current username?
20. What command shows you CPU and memory utilization for running processes?
21. What command is used to change a file name?
22. What is the command to switch to the root user account?
23. What command is used to change the permissions of a file?
24. What is the command to change your password?
25. What command is used to display your previous commands?
26. Save the contents of ‘hello.c’ and ‘world.c’ in a text file using single command.
27. Create shortcut of the directory ‘song’ which is in ‘home/user/Document/Music’ in ‘/home/user/Desktop’
28. List the files in the directory "/etc" that have “network" in their strings.
29. Copy all files in the current directory whose names end in ".c" or ".h" into the subdirectory "Programs".
30. Create a user account with username ‘quizUser’ and add him in group ‘sudo’
31. Change the current system date to 6th Sept 2018 and time should be 11:00AM.
32. Change permission access of the directory “dir1” so that owner has read and write permission and group and others have only execute permission.
33. $ls /bin | grep network | sort which command will run first?
34. How do we save a file in vi editor?
35. How do we quit a file in nano editor?
36. What is the output of this command $**Man cp ?**
37. What is the difference between relative and absolute path?
38. Is this command is right **ls –alhR** ?
39. Write absolute path of **~/os/quiz/test.c** if you are login from fast account.
40. Save the contents of ‘file1’, ‘file2’ and ‘studentList’ files in a text file using single command.
41. List all files with extension ‘.mp3’ present in a directory ‘song’ which is in ‘/home/user/Document/Music’
42. Copy all files of ‘os’ directory which is in ‘home/user/Document/quiz’ in ‘/home/user/Desktop’
43. Create shortcut of the directory ‘quiz’ which is in ‘home/user/Download in ‘/home/user/Desktop/Quizzes/’.
44. Write a command for adding user named <your id> and add him to the group sudo.
45. Change permission access of the directory “dir1” so that owner has read and write permission and group and others have only read permission.
46. Difference between /mount and /mnt?
47. How do we quit a file in vi editor?
48. Can we quit a file without saving in nano editor? How?
49. What is the output of this command $**man cd ?**
50. Why we use Linux for implementing OS concepts**?**
51. Create the following directories with one command. dirOSLAB -> subDir -> subsubdir -> OSquiz
52. Save the contents of ‘hello.c’ and ‘hi.txt’ files in another text file using single command.
53. Create a shortcut link in /opt directory of the directory “quiz” present in ~/.
54. List all files with extension ‘.txt’ present in a directory ‘OS’ which is in ‘/home/user/Document/’
55. Copy all files in the current directory whose names contain the character string "let" into the subdirectory "Letters".
56. Change the current system date to 6th Sept 2018 and time should be 11:00AM.
57. Change permission access of the directory “dir1” so that owner has read and execute permission and group and others have only write permission.
58. Change ownership of the directory “dir1” to the new user “linux”.
59. What are the contents of /bin /proc and /dev?
60. How do we save a file in nano editor?
61. Can we quit a file without saving in vi editor? How?
62. What is the output of this command $**Man ls ?**
63. What is the difference between **touch a.txt** and **nano a.txt**?
64. BASH stands for?
65. Write absolute path of **~/os/quiz/test.c** if you are login from fast account.
66. Why we do shell scripting?
67. Is this command is right “x = 1”?
68. How many times this loop will run “for i in {1 .. 10 ..2}?
69. Which brackets are used for arithmetic operations, conditional statements?

***“Don’t practice until you get it right. Practice until you can’t get it wrong.”  
BEST OF LUCK!***