# LINUX LAB- 1 ASSIGNMENT

1. Login as guest (password is guest123)
   - sudo –I –u guest
2. Find the present Directory
   -pwd
   -/home/guest
3. Write the / directory structure
   - tree
4. Write a few commands available in /bin and /sbin directory

   - sh
   - sh.disturb
   - static-sh
   - mt
   - nc

5. Find the guest directory
   -/home/guest

6. Write the permissions of guest directory
   - ls -la

7. Create a new Directory test in guest directory-
   - mkdir test

8. Write the permissions of test directory-
   - ls -la
   - drwxr-xr-x
9. Copy the file /etc/resolv.conf in test directory
   - sudo cp   /etc/resolv.conf /home/guest/test

10. Rename the test directory to testing
    - mv test testing

11. Delete the testing directory
    - rm -r testing
12. Change the permissions of guest directory to 775
    - chmod 775 guest

13. Change the permissions of /tmp directory to 700
    - chmod 700 /tmp
14. Login as root user

- sudo login dell
15. Change the permissions of guest directory to 700
    - chmod 700 /home/guest
16. The location of kernel files in Unix File System is /boot and by looking at the kernel file, write the kernel version you are using in your system.
    - vmlinuz-3.2.0-29-generic   - kernal file
    - virsion - 81-Ubuntu SMP

17. Login as guest
    - su guest
18. Change directory to /
    - cd /
19. List the contents of /home directory
    - bin
    - cdrom
    - etc
    - host
    - initrd.img.old   lib64
    - media
    - opt
    - root
    - sbin
    - srv
    - tmp
    - var
    - vmlinuz.old

    - boot
    - dev
    - home
    - initrd.img
    - lib
    - lost+found
    - mnt
    - proc
    - run
    - selinux
    - sys
    - usr
    - vmlinuz

20. Find the group to which guest belongs
    - groups guest
21. Create a file sidbi in the home area of guest (hint: use touch command)

- touch sidbi
22. Find the permissions of the file sidbi
    - -rw-rw-r--
23. Find the inode number of file sidbi (hint: ls –li)
    - 406878
24. Copy the file sidbi to sidbi1
    - cp sidbi /home/guest/sidbi1

25. Find the inode number of file sidbi1 (hint: ls –li)
    - 406899
26. Move the file sidbi to sidbi2
    - mv sidbi /home/guest/sidbi2
27. Find the inode number of file sidbi2 (hint: ls –li)
    - 406878
28. Move sidbi2 to sidbi
    - mv sidbi2 sidbi
29. Login as root
    - sudo login dell
30. Create a new user guest1 with same group as guest (hint: use GUI tool Applications→System Settings→ Users and Groups)[More on this later in the course]
31. Create a new user guest2 with a different group than the group of guest (hint: use GUI tool Applications→System Settings→ Users and Groups)
32. Find, what permissions should the file sidbi have, so that both guest1 and guest2 can write into this file.

Home work :   Linux installation   step by step . Prefer manual installation to get deep understanding.

Guest login is presumed. Students may work in their individual logins.
Step 29 to 32 are based on your student access rights policy. Otherwise it may be followed on your personal laptops.