**Operating Systems Lab Assignment 1**

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| **Sr**. **no** | **Operations** | **Commands** |
| 1 | Login as guest (password is guest123) | sudo -i -u guest-3KiZCS |
| 2 | Find the present Directory | pwd |
| 3 | Write the / directory structure | Sudo apt-get install tree tree |
| 4 | Write a few commands available in /bin and /sbin directory | Bin: - netcat, setupcon , bzcat, fuser, netstat, sh , bzcmp, fusermount nisdomainname, sh.distrib sbin: -acpi\_available, getcap, mkfs.bfs, resolvconf , agetty getpcaps, mkfs.cramfs, restart , alsa, getty, mkfs.ext2 rmmod |
| 5 | Find the guest directory | Find / -name “guest-3KiZCS” |
| 6 | Write the permissions of guest directory | Cd /tmp ls -l **drwx------ 15 guest-3KiZCS guest-3KiZCS 440 Jan 21 19:20 guest-3KiZCS** |
| 7 | Create a new Directory test in guest directory | Sudo -i -u guest-3KiZCS mkdir temp |
| 8 | Write the permissions of test directory | Sudo -i -u guest-3KiZCS ls -l **drwxr-xr-x 2 guest-3KiZCS guest-3KiZCS 40 Jan 21 19:31 temp** |
| 9 | Copy the file /etc/resolv.conf in test directory | cp /etc/resolv.conf temp |
| 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 | Sudo -i -u root cd /tmp chmod 775 guest-3KiZCS **drwxrwxr-x 15 guest-3KiZCS guest-3KiZCS 460 Jan 21 19:47 guest-3KiZCS** |
| 13 | Change the permissions of /tmp directory to 700 | cd .. chmod 700 tmp |
| 14 | Login as root user | Sudo -i -u root |
| 15 | Change the permissions of guest directory to 700 | Sudo -i -u root cd /tmp chmod 700 guest-3KiZCS |
| 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. | uname -v **#45-Ubuntu SMP Tue Jul 15 04:02:06 UTC 2014** |
| 17 | Login as guest | Sudo -i -u guest-3KiZCS |
| 18 | Change directory to / | cd / |
| 19 | List the contents of /home directory | ls -a |
| 20 | Find the group to which guest belongs | id guest-3KiZCS |
| 21 | Create a file sidbi in the home area of guest (hint: use touch command) | Touch sibdi |
| 22 | Find the permissions of the file sidbi | ls –l  **-rw-r—r—1 guest-3KiZCS guest-3KiZCS 0 Jan 22 20:14 sibdi** |
| 23 | Find the inode number of file sidbi (hint: ls –li) | ls –li  **244561** |
| 24 | Copy the file sidbi to sidbi1 | Cp sibdi sibdi1 |
| 25 | Find the inode number of file sidbi1 (hint: ls –li) | ls –li  **241391** |
| 26 | Move the file sidbi to sidbi2 | mv sibdi sibdi1 |
| 27 | Find the inode number of file sidbi2 (hint: ls –li) | ls –li  **244561** |
| 28 | Move sidbi2 to sidbi | mv sibdi2 sibdi |
| 29 | Login as root | Sudo –I –u root |
| 32 | Find, what permissions the file sidbi should have, so that both guest1 and guest2 can write into this file. | **777** |