

**NETWORKING & SYSTEM ADMINISTRATION LAB****Experiment No.: 7****Aim**

Familiarization of Linux Commands

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**Procedure**

**Note : sudo:** “super user do” command is used to access/perform admin privileged activities.

1. **sudo useradd “username”:** This command is used to add a user to the system and create an account with the specified username.

```
mca@T70:~$ sudo useradd mathew  
[sudo] password for mca:
```

2. **sudo passwd “username”:** It lets you to change the password of the mentioned user account if it exists.

```
mca@T70:~$ sudo passwd mathew  
Enter new UNIX password:  
Retype new UNIX password:  
passwd: password updated successfully
```

3. **sudo groupadd -g “unique-no” “group-name”:** This command helps to create a new group in the system with specified unique ID and with new non-existing Group Name.

```
mca@T70:~$ sudo groupadd -g 854 mathew  
groupadd: group 'mathew' already exists
```

4. **sudo usermod -G “group-name” “username”**: This command helps to add an existing created user to the mentioned group.

```
mca@T70:~$ sudo usermod -G libin mathew
mca@T70:~$ id mathew
uid=1004(mathew) gid=1005(mathew) groups=1005(mathew),854(libin)
```

5. **compugen -g**: This helps to list out all the existing groups in the system.

```
mca@T70:~$ compugen -g
root
daemon
bin
sys
adm
tty
disk
student
exam
mathew
libin
ab
```

- a) **compugen -g “group-name”**: This command is used to list only the mentioned group name if it exists.

```
mca@T70:~$ compugen -g libin
libin
```

6. **sudo userdel “user-name”**: This command helps to delete an existing mentioned user from the system.

```
mca@T70:~$ sudo userdel libin
userdel: user 'libin' does not exist
```

- a) **sudo userdel “group-name”**: This command helps to delete an existing mentioned group from the system.

```
mca@T70:~$ sudo groupdel mk
```

7. **chmod +(rwx) [filename/foldername]**: This command helps to restrict the mentioned privileges for the mentioned file or folder.

**NOTE:**

1. **r** -> read
2. **w** -> write
3. **x** -> execute

**chmod -(wx) [filename/foldername]**: This command helps to give mentioned privileges for the mentioned file or folder.

```
mca@T70:~$ chmod +rwx newfile.txt
mca@T70:~$ chmod -wx newfile.txt
mca@T70:~$ cat >> newfile.txt
dsf
^Z
[2]+  Stopped                  cat >> newfile.txt
```

8. **sudo chown “group-name” [filename]**: This command enables you to transfer the ownership of the mentioned file from current user to another mentioned user.

```
mca@T70:~$ sudo chown mathew newfile.txt
mca@T70:~$ ls -l
total 124
drwxr-xr-x 2 mca   mca  4096 Jun 19  2018 Desktop
drwxr-xr-x 2 mca   mca  4096 May 30  2018 Documents
drwxr-xr-x 3 mca   mca  4096 May 30  2018 Downloads
```