Q1. Explore the following commands with various options, refer man pages for

further help a) date b) cal c) bc d) echo e) who f) whoami g) logname g) uname h)

seq i) clear

date

Q2. A) Create three directory a b and c and create a.txt,b.txt and c.txt

in each directory respectively and then copy c directory into the a.

B)Move Directory b to c.

C)Create alias of ls -lh command to your name.

D)Change Directory name a to cdac.

Q3. A) Create five files file1.txt , file2.txt ,file3.txt file4.txt and

file5.txt with some text inside it. Search for 's' character

inside all the files using grep command.

Also Use cat to view all file content together.

B)Create file.txt using cat and edit that using nano editor.

cat > file.txt

nano file.txt

cat file.txt

c)Create 5 empty files using touch command

touch a b c d e

D)Remove previously created directory a , b and c.

rm -r a b c

Q4. Create a file with some content using vi editor

rm -r a b c

vi vi.txt

a) Display the file using cat command

cat vi.txt

b) Display line numbers along with content

cat -n vi.txt

c) Display the file in reverse order using tac

tac vi.txt

d) Combine multiple files using cat command

cat file1.txt >> file2.tx

Q5. Create Random some files and sub directories.

a) display files row wise, column wise, 1 per row.

ls -l

b) sort the files in ascending, descending order

ls -1 ascending

ls | sort -r descending

c) Create some hidden files and sub directories and display them using “ls -a”

mkdir .hidden1 .hidden2 .hidden3

d) Change time stamp of some files and directories using touch command and display the files using ls -t ls -rt

e) Recursive display contents of your home directory.

ls -r

f) display all attributes of files and directories using ls -l

ls -l

g) display attributes of a directory using ls -ld

ls -id

==================================================================================

Q1. Create directory of your name and then create 4 files inside it named

a.txt, b.txt, c.txt and d.sh. And change the directory permission to

only user and also files permission to only user such that

a)user can read and write the file a.txt and b.txt

chmod +rw a.txt b.txt

b)user can write the file c.txt

chmod 2 c.txt

c)user can exectuable the file d.sh. Make

Contents of file d.sh:

#/bin/sh

ls -lh

Q2. Change the permission of the previous directory to executable only.

Analyze the output.

chmod 1 d.sh

Q3. Change the permission of the previous directory to read only.

Analyze the output.

chmod 4 sid

Q4. Use echo to list the all files of your home directory.

echo \* /home/

Q5. Use echo to list the all files of /etc/ directory

echo \* /etc/

Q6. Use echo to list the all files of /etc/ directory with extension name .conf

echo \*.conf /etc/

Q7. Use echo to append your name to a.txt

echo 'sudarshan bhamare' >> a.txt

==================================================================================

Note:Many operation might not work.Analyze them

1. Create Three level nested directory a,b and c

a)Create at least one hidden file in each directory

> mkdir -p a/b/c

b)Create at least one normal text file in each directory

> touch filea.txt ./b/fileb.txt ./b/c/filec.txt

c)Copy c into a

> cp -r b/c ./

d)Copy file inside a into b

> cp filea.txt b/

2. Change the third level directory c permission to read only

> chmod a+r b/c

3. Try copying third level c directory to outside of a

> cp b/c ../

4. Create the directory “data“ inside b

> mkdir b/data

5. Change the permission of b to read and write only

> chmod u+rw b

6. Create directory “data2” inside b

> mkdir b/data2

7. Create data.txt file inside b

> touch b/data.txt

8. Rename the second level directory c to copied\_dir

> mv b/c a

9. Change permission of copied\_dir to only executable

> chmod u+x b/c

10. Try ls on copied\_dir

> ls cannot run because of executable only cannot read

11. Try moving copied\_dir to outside of a

> cannot move dir to outside because of restriced permissions

12. Try moving data directory outside of a

> cannot move, permission access denied

13. Now change the owner of the directory a to root

> groups username

chgrp webdev file.txt

ls -l file.txt

14. Change permission of a to read write and executable to only user

> chmod u+rwx a

15. Try creating directory sample inside a

> mkdir a/d

16. Create directory x outside a

> mkdir ../x

17. Try moving x inside a

> mv x ./a

18. Create directory movies

> mkdir movies

19. Change group of movies to sudo

> sudo usermod -aG sudo newuser

20. Change group of movies to avahi

> chgrp scifi myfile

ls -l myfile

21. Try changing permission after changing ownership to root

> sudo chmod --recursive a+rwx /tmp

22. Try Changing permission after changing group to sudo without sudo

> pkexec chmod go-w /usr/lib/sudo/sudoers.so

23. Try Changing owner and group both to root

> sudo chown -R username:group directory

24. Try changinging permission

> sudo usermod -aG sudo newuser

25. Try deleting the file

> rm -rf a.txt