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

seq 2 2 20

seq 3 3 30

mkdir a b c

cd a cd b cd c

cat > a.txt cat > b.txt cat > c.txt

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

Mkdir a b c

cat > a.txt cat > b.txt cat > c.txt

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

----- cp -r c a

B)Move Directory b to c.

Mv b c

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

D)Change Directory name a to cdac. ------mv a cdac

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

file5.txt

-----touch file1.txt file2.txt file3.txt file4.txt file5.txtwith some text inside it.

Search for 's' character inside all the files using grep command.

-- grep 'S' file1.txt file1.txt file2.txt file3.txt file4.txt

Also Use cat to view all file content together.

- cat file1.txt file1.txt file2.txt file3.txt file4.txt

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

----cat > file12.txt -- nano file12.txt

c)Create 5 empty files using touch command

touch file1.txt file2.txt file3.txt file4.txt file5.txt

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

Rmdir –r a b c

rm –r a b c

--- rm –rf a b c

Q4. Create a file with some content using vi editor

a) Display the file using cat command

-- vi file13.txt

b) Display line numbers along with content

-- cat -n file13.txt

c) Display the file in reverse order using tac

-- tac file13.txt

d) Combine multiple files using cat command

-- cat file1.txt file2.txt >file3.txt

Q5. Create Random some files and sub directories.

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

b) sort the files in ascending, descending order

-- sort file1.txt

-- sort –r file1.txt

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

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

--touch -d "today 1 day" file.txt

--ls -lh

e) Recursive display contents of your home directory.

-- ls –R

-- du –a

-- find dir/ -print (give path of all the files)

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

g) display attributes of a directory using ls –ld

--ls –ld ( used for to know the permissions)

-- ls –m –(allthe files separated by commas)

--ls –X (sort Entry by extensions)

--ls –A (used to show all hidden files)-exclude . .. fliles

--ls –a A (used to show all hidden files)-include . .. files

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

-- mkdir Rupali -- cd Rupali

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 +w c.txt

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

Contents of file d.sh:

chmod +x d.sh

cat d.sh

#/bin/sh

ls -lh

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

Analyze the output.

chmod +x Rupali

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

Analyze the output.

chmod -x Rupali

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

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

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

find /etc/ -name "\*.conf"

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

--echo "Hello----rupali" >>a.txt

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Note:Many operation might not work.Analyze them

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

mkdir a

cd a

cat > a.txt

mkdir b

cd b

cat > b.txt

mkdir c

cd c

cat > c.txt

a)Create at least one hidden file in each directory

touch .rupali

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

c)Copy c into a

cp -r c a

d)Copy file inside a into b

cp a.txt b

cp -r cdac/\* a9

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

chmod +r c

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

cp c a

4. Create the directory “data“ inside b

mkdir data

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

chmod +rw b

6. Create directory “data2” inside b

mkdir data2.

7. Create data.txt file inside b

cat > data.txt

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

mv c copied\_dir

9. Change permission of copied\_dir to only executable

chmod +x copied\_dir

10. Try ls on copied\_dir

11. Try moving copied\_dir to outside of a

cp copied\_dir a

12. Try moving data directory outside of a

mv /home/rupali/Rupali/a.txt /home/rupali

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

chown -R root a

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

15. Try creating directory sample inside a

16. Create directory x outside a

17. Try moving x inside a

18. Create directory movies

19. Change group of movies to sudo

Chgrp sudo movies

20. Change group of movies to avahi

21. Try changing permission after changing ownership to root

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

23. Try Changing owner and group both to root

24. Try changinging permission

25. Try deleting the file