

Q1 :

Command : `grep -n "error" /var/log/messages`

Q2 :

Command :

`# touch users.txt`

`# vim users.txt`

`# grep -i "user" users.txt`

Q3 :

(>) This will overwrite the content in given file.

(>>) This will append the data and will add the new content in previous one

Example :

`#touch file15`

`# echo "This will overwrite" > file15`

`# cat file15`

This will overwrite

`# echo " This will append the data " >> file15`

`# cat file15`

This will overwrite

This will append the data

Q4 :

Command to redirect ls /usr output to errors.log'

Commands :

`# ls /usr > errors.log 2>&1`

`# cat errors.log`

Output :

bin

games

include
lib
lib64
libexec
local
sbin
share
src
tmp

Q5 :

Commands :

```
# echo -e "linux\nlinux\nredhat\nubuntu\nwindows\nMac" > sed.txt  
# sed -i 's/redhat/centos/' sed.txt  
# sed -i '/linux/d' sed.txt  
# cat sed.txt
```

Output :

centos
ubuntu
windows
Mac

Q6 :

Using Head and Tail command

```
# head -n 20 /etc/passwd | tail -n 11
```

Q7 :

If we use the cp command the data of one file is being copied to another file

Example :

```
# vim file6  
#vim file7
```

```
# cp -i file7 file6
```

Output : This is the data of file2

Note : add the data in file file6 and file7

Q8 :

Commands :

```
# mkdir -p /udaipur/techno/njr
```

```
# touch /udaipur/techno/njr/file{1..20}.txt
```

```
# ls /udaipur/techno/njr
```

Output :

```
file10.txt file13.txt file16.txt file19.txt file2.txt file5.txt file8.txt
```

```
file11.txt file14.txt file17.txt file1.txt file3.txt file6.txt file9.txt
```

```
file12.txt file15.txt file18.txt file20.txt file4.txt file7.txt
```

Q9 :

su : This command is used to login the user in the terminal & executes the command following

su - : This command logs in as a superuser and executes the commands to login.

Q10 :

/etc/passwd : This command is used to open the passwd file where all the users list is available and in older version passwords are saved in this file

Example format : username:password:UID:GID:full_name:home_directory:shell

/etc/shadow : This command is used to check the password in encrypted form
username:encryptedpassword:lastchange:mindays:maxdays::inactivedays:expire

Q11 :

To list all the password policy of the user by using chage command

Command : chage -l root

Q12 :

```
# useradd harry
```

```
# chage -M 30 harry
```

Q13 :

```
# groupadd sysadmin
```

```
# usermod -aG sysadmin harry
```

```
# id harry
```

```
# usermod -aG sysadmin raj
```

```
# id raj
```

```
# usermod -g sysadmin prem
```

```
# id prem
```

Q14 :

The file named (/etc/passwd) stores the user information like (UID , GID)

The file named (/etc/shadow) stores the user's password related information like (password hash)

Q15 :

No if you delete a user the mail and directory will not get deleted

Command :

```
# useradd test
```

```
# userdel test
```