# 1. Install Ubuntu Desktop Version



2. What is the different between cat and more command?

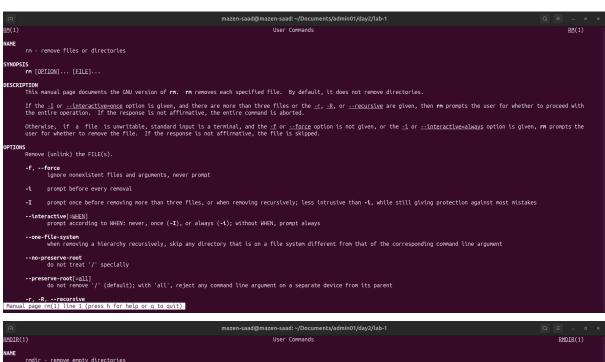
cat file.txt more file.txt

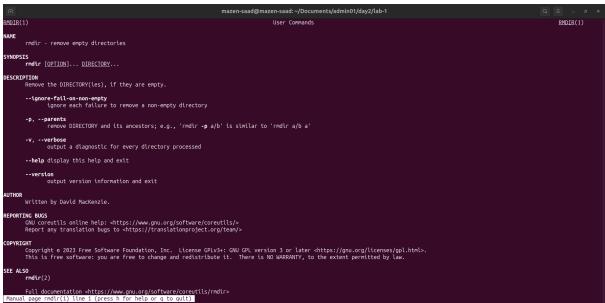
cat => Displays the entire content of a file more => Displays the content of a file one screen at a time.

```
mazen-saad@mazen-saad:-/Documents/admin01/day2/lab-1$ ls file.txt mazen-saad:-/Documents/admin01/day2/lab-1$ cat file.txt mazen-saad@mazen-saad:-/Documents/admin01/day2/lab-1$ cat file.txt mazen-saad:-/Documents/admin01/day2/lab-1$ cat file.txt mazen-saad:-/Documents/a
```

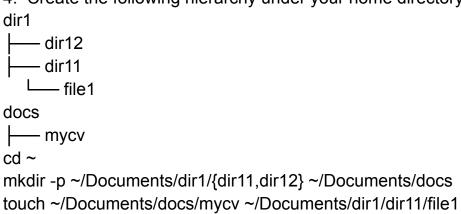
3. What is the difference between rm and rmdir using man? rm: Removes files or directories. rmdir: Removes empty directories.

## man rm man rmdir





4. Create the following hierarchy under your home directory:



```
mazen-saad@mazen-saad:-/Documents/admin01/day2/lab-1$ cd ~
mazen-saad@mazen-saad:-$ ls
Desktop Documents Downloads Music Pictures Public snap teams.deb Templates Videos
mazen-saad@mazen-saad:-$ mkdir -p ~/Documents/dir11/dir112} ~/Documents/docs
mazen-saad@mazen-saad:-$ touch ~/Documents/docs/mycv ~/Documents/dir1/file1
mazen-saad@mazen-saad:-$
```

5. Remove dir11 in one-step. What did you notice? And how did you overcome that?

rm -rf dir11 #-r removes directories

rm -r ~/Documents/dir1/dir11

note: deletion of directories and their contents.

6. Then remove dir12 using rmdir –p command. State what happened to the hierarchy

(Note: you are in your home directory).

rmdir -p ~/Documents/dir1/dir12

note: -p removes parent directories if empty

```
mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ rmdir -p ~/Documents/dir1/dir12
rmdir: failed to remove directory '/home/mazen-saad/Documents': Directory not empty
mazen-saad@mazen-saad:-$ 

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```

7. Copy the /etc/passwd file to your home directory making its name is mypasswd.

cp /etc/passwd ~/Documents/mypasswd

8. Rename this new file to be oldpasswd.

mv ~/Documents/mypasswd ~/Documents/oldpasswd

```
mazen-saad@mazen-saad: $ pwd /home/mazen-saad@mazen-saad@mazen-saad@mazen-saad@mazen-saad : $ mv ~/Documents/mypasswd ~/Documents/oldpasswd mazen-saad@mazen-saad: $ \ \]
```

9. The output of the command pwd was /home/user. Write the absolute and relative path for the file mycv

Absolute: /home/user/Documents/docs/mycv

Relative: Document/docs/mycv

10. You are in /usr/bin, list four ways to go to your home directory

cd \$HOME

cd

cd ~

cd /home/mazen-saad

```
mazen-saad@mazen-saad:/usr/bin$ pwd
/usr/bin
mazen-saad@mazen-saad:/usr/bin$ cd $HOME
mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad:-$ pwd
/home/mazen-saad:-$ pwd
/home/mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad:-$ pwd
/home/mazen-saad:-$ pwd
/home/mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ cd /usr/bin
mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ pwd
/home/mazen-saad@mazen-saad:-$ pwd
```

#### 11. List Linux commands in /usr/bin that start with letter w

#### Is /usr/bin/w\*



# 12. Display the first 4 lines of /etc/passwd

## head -n4 /etc/passwd

```
mazen-saad@mazen-saad: $ pwd
/home/mazen-saad: $ tail -n7 /etc/passwd
colord:x:118:120:colord colour management daemon,,;/var/lib/colord:/usr/sbin/nologin
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup/:/bin/false
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
nm-openvpn:x:121:122:NetworkManager OpenVPN,,;/var/lib/openvpn/chroot:/usr/sbin/nologin
nvidia-persistenced:x:122:124:NVIDIA Persistence Daemon,,;/nonexistent:/usr/sbin/nologin
gnome-remote-desktop:x:985:985:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin
mazen-saad:x:1000:1000:Mazen Saad:/home/mazen-saad:/bin/bash
mazen-saad@mazen-saad: $ |
```

# 13. Display the last 7 lines of /etc/passwd

## tail -n7 /etc/passwd

14. Display the man pages of passwd the command and the file sequentially in one command.

## man passwd /etc/passwd



#### 15. Display the man page of the passwd file.

#### man /etc/passwd



16. Display a list of all the commands that contain the keyword passwd in their man page.

## man -f passwd

```
mazen-saad@mazen-saad: ^
 mazen-saad@mazen-saad:~$ man -f passwd
passwd (1)
passwd (1ssl)
passwd (5)
                                   change user passwordOpenSSL application commands
                                    - the password file
 mazen-saad@mazen-saad:~$ man -k password
                               - generates several random passwords
apg (1)
chage (1)
chgpasswd (8)
                                   - change user password expiry information
chage (1)
- change user password exptry information
chgpasswd (8)
- update group passwords in batch mode
cpgr (8)
- copy with locking the given file to the password or group file
cppw (8)
- copy with locking the given file to the password or group file
cracklib-check (8)
- Check passwords using libcrack2
create-cracklib-dict (8)
- Check passwords using libcrack2
endpwent (3)
endspent (3)
expiry (1)
                                    - get password file entry
                                    - get shadow password file entry
                                   - check and enforce password expiration policy
                                   - get password file entry
- get shadow password file entry
- get shadow password file entry
fgetpwent (3)
fgetspent (3)
fgetspent_r (3)
getpass (3)
getpw (3)
getpwent (3)
                                    - get a password
                                    - reconstruct password line entry
                                    - get password file entry
getpwnam (3)
                                    - get password file entry
```