Lab1

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

Cat: prints file contents all at once, but more: prints page by page.

- 3. What is the command that will show system info? uname
- 4. What is the command that will print current timestamp? date
- 5. What is the command that will print calendar of December 2001? cal 12 2001
- 6. What is the command that will create file at current directory? touch file1.txt
- 7. What is the command that will print "hello world" at screen? echo "hello world"
- 8. What is the difference between rm and rmdir using man?

rm: removes files by default and also directories when adding –recursive, --dir removes empty directories

rmdir: removes empty directories only

9. Display the man page of passwd command

```
PASSWD(1)
                                 User Commands
                                                                     PASSWD(1)
NAME
       passwd - change user password
SYNOPSIS
      passwd [options] [LOGIN]
DESCRIPTION
       The passwd command changes passwords for user accounts. A normal user
      may only change the password for their own account, while the superuser
      may change the password for any account. passwd also changes the
      account or associated password validity period.
   Password Changes
       The user is first prompted for their old password, if one is present.
       This password is then encrypted and compared against the stored
       password. The user has only one chance to enter the correct password.
       The superuser is permitted to bypass this step so that forgotten
      passwords may be changed.
      After the password has been entered, password aging information is
       checked to see if the user is permitted to change the password at this
       time. If not, passwd refuses to change the password and exits.
       The user is then prompted twice for a replacement password. The second
      entry is compared against the first and both are required to match in
      order for the password to be changed.
       Then, the password is tested for complexity. As a general guideline,
       passwords should consist of 6 to 8 characters including one or more
       characters from each of the following sets:
```

Lab2

1. Create the following hierarchy under your home directory:

```
diana@diana: ~/dir1/dir11
                                                             Q I
diana@diana:~/Documents$ cd ...
diana@diana:~$ mkdir dir1
diana@diana:~$ mkdir docs
diana@diana:~$ docs
docs: command not found
diana@diana:~$ ./docs/
bash: ./docs/: Is a directory
diana@diana:~$ cd docs
diana@diana:~/docs$ mkdir mycv
diana@diana:~/docs$ cd ...
diana@diana:~$ dir1
Command 'dir1' not found, did you mean:
 command 'dir' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
diana@diana:~$ cd dir1
diana@diana:~/dir1$ mkdir dir12
diana@diana:~/dir1$ mkdir dir11
diana@diana:~/dir1$ dir11
dir11: command not found
diana@diana:~/dir1$ cd dir11
diana@diana:~/dir1/dir11$ touch file1.txt
diana@diana:~/dir1/dir11$
```

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

```
diana@diana:~/dir1$ rm -r dir11
diana@diana:~/dir1$
```

It deleted the directory and the file inside it without warning.

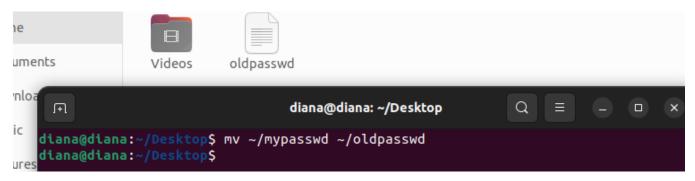
To overcome this:

```
diana@diana:~/dir1$ rm -ri dir12
rm: remove directory 'dir12'? no
diana@diana:~/dir1$
```

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

```
diana@diana:~/dir1$ cp /etc/passwd ~/mypasswd
diana@diana:~/dir1$
```

4. Rename this new file (which at your home) to be oldpasswd



5. Write the command which display the man page of the passwd file"/etc/passwd".



6. Write the command which display a list of all the commands that contain the keyword "passwd" in their man/manual page.

diana@diana:~\$ man -K passwd

```
OPENSSL-CMDS(ISSL)

NAME

asniparse, ca, ciphers, cms, crl, crl2pkcs7, dgst, dhparam, dsa,
dsaparam, ec, ecparam, enc, engine, errstr, gendsa, genpkey, genrsa,
info, kdf, mac, nseq, ocsp, passwd, pkcs12, pkcs7, pkcs8, pkey,
pkeyparam, pkeyutl, prime, rand, rehash, req, rsa, rsautl, s_client,
s_server, s_time, sess_id, smime, speed, spkac, srp, storeutl, ts,
verity, version, x509 - OpenSSL application commands

SYNOPSIS

openssl cmd -help | [-option | -option arg] ... [arg] ...

DESCRIPTION

Every cmd listed above is a (sub-)command of the openssl(1)
application. It has its own detailed manual page at openssl-cmd(1).
For example, to view the manual page for the openssl dgst command, type
"man openssl-dgst".

OPTIONS

Among others, every subcommand has a help option.
-help
Print out a usage message for the subcommand.

SEE ALSO
openssl(1), openssl-asniparse(1), openssl-ca(1), openssl-ctphers(1),
openssl-dparam(1), openssl-dsa(1), openssl-cdsaparam(1), openssl-dgst(1),
openssl-dparam(1), openssl-dsa(1), openssl-dsaparam(1), openssl-ec(1),
openssl-errsit(1), openssl-gendsa(1), openssl-engke(1),
openssl-errsit(1), openssl-gendsa(1), openssl-engke(1),
openssl-errsit(1), openssl-gendsa(1), openssl-engke(1),
openssl-genrsa(1), openssl-gensfe(1), openssl-errsit(1),
openssl-genrsa(1), openssl-genske(1), openssl-errsit(1),
openssl-genrsa(1), openssl-genske(1), openssl-dsaparam(1), op
```

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

1. By using command: cd

2. By using command: cd /home/diana

3. By using command: cd ~

4. By using command: cd ../../home/diana

8. The output of the command pwd was /home/. Write the absolute and relative path for the file /etc/passwd

The absolute path: /etc/passwd

The relative path: ../../etc/passwd