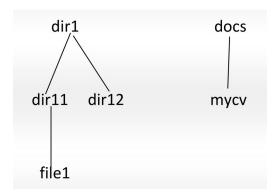
## Lab 1

- Install CentOS /RHEL Done
- 2. What is the difference between cat and more command? "Cat" command is used for showing the data inside a file. If the data is so huge that it can't be viewed in one screen, the "Cat" command will show only the last part of data which can fill only one screen.
  - "More" command is also used for showing the data inside a file. "More" command has the advantage that it can show the whole data inside a file through more than one screen.
- 3. What is the difference between rm and rmdir using man? "rm" removes files or directories. Directories can be removed by adding -r option to the "rm" command
  - "rmdir" removes empty directories
- 4. Create the following hierarchy under your home directory:



```
hamza@Hamza-Inspiron-5567:~$ mkdir dir1
namza@Hamza-Inspiron-5567:~$ mkdir docs
namza@Hamza-Inspiron-5567:~$ mkdir dir1/dir11
namza@Hamza-Inspiron-5567:~$ mkdir dir1/dir12
namza@Hamza-Inspiron-5567:~$ touch dir/dir11/file1
touch: cannot touch 'dir/dir11/file1': No such file or directory
namza@Hamza-Inspiron-5567:~$ touch dir1/dir11/file1
namza@Hamza-Inspiron-5567:~$ touch docs/mycv
namza@Hamza-Inspiron-5567:~$
```

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

```
hamza@Hamza-Inspiron-5567:~

hamza@Hamza-Inspiron-5567:~

rmdir: failed to remove 'dir1/dir11': Directory not empty
hamza@Hamza-Inspiron-5567:~

rmdir: failed to remove 'dir1/dir11': Directory not empty
hamza@Hamza-Inspiron-5567:~

ls dir1

dir12
hamza@Hamza-Inspiron-5567:~
```

The directory couldn't be removed using "rmdir" because it is not empty. To over come that, we can use rm -r

b) Then remove dir12 using rmdir –p command. State what happened to the hierarchy (Note: you are in your home directory).

```
hamza@Hamza-Inspiron-5567:~ Q = hamza@Hamza-Inspiron-5567:~$ rmdir -p dir1/dir12 hamza@Hamza-Inspiron-5567:~$ ls dir1 ls: cannot access 'dir1': No such file or directory hamza@Hamza-Inspiron-5567:~$
```

Both directories "dir12" and its parent directory "dir1" are removed.

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

Absolute Path: /home/user/docs/mycv Relative Path: docs/mycv

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

```
hamza@Hamza-Inspiron-5567:~

hamza@Hamza-Inspiron-5567:~$ cp /etc/passwd mypasswd
hamza@Hamza-Inspiron-5567:~$ ls -F

Desktop/ Downloads/ Pictures/
docs/ Music/ "PlayOnLinux's virtual drives"@ Templates/
Documents/ mypasswd Public/
hamza@Hamza-Inspiron-5567:~$
```

6. Rename this new file to be oldpasswd.

- 7. You are in /usr/bin, list four ways to go to your home directory
  - a. cd ../..; cd home; cd hamza
  - b. cd ../../home/hamza
  - c. cd /home/hamza
  - d. cd ~
- 8. List Linux commands in /usr/bin that start with letter w cd / usr/bin; ls w?
- 9. Display the first 4 lines of /etc/passwd head -4 / etc/passwd
- 10.Display the last 7 lines of /etc/passwd tail -7 / etc/passwd
- 11. Display the man pages of passwd the command and the file sequentially in one command.

Man -a passwd

12. Display the man page of the passwd file.

Man -S5 passwd

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

Man -k passwd