

Step 1: Open a terminal window.

```
giancarlo@giancarlo-VirtualBox:~$
```

Step 2: Display your current working directory.

```
giancarlo@giancarlo-VirtualBox:~$ pwd
/home/giancarlo
giancarlo@giancarlo-VirtualBox:~$
```

Step 3: Using an absolute pathname, switch to the /etc directory.

```
giancarlo@giancarlo-VirtualBox:~$ cd /etc
giancarlo@giancarlo-VirtualBox:/etc$
```

Step 4: Using a relative pathname, move to the /etc/skel directory.

```
giancarlo@giancarlo-VirtualBox:~$ cd /etc
giancarlo@giancarlo-VirtualBox:/etc$ cd /etc/skel
giancarlo@giancarlo-VirtualBox:/etc/skel$ cd ..
```

Step 5: Using a relative pathname, move up one directory.

```
giancarlo@giancarlo-VirtualBox:/etc/skel$ cd ..
giancarlo@giancarlo-VirtualBox:/etc$
```

Step 6: List the files in the current directory.

```
giancarlo@giancarlo-VirtualBox:/etc$ ls
acpi                      hostid          polkit-1
adduser.conf                hostname        ppp
alsa                      hosts           profile
alternatives               hosts.allow    profile.d
anacrontab                 hosts.deny    protocols
apg.conf                   hp              pulse
apm                       ifplugd        python3
apparmor                   init            python3.10
apparmor.d                 init.d         rc0.d
apport                     initramfs-tools  rc1.d
appstream.conf              inputrc        rc2.d
apt                       insserv.conf.d rc3.d
```

Step 7: Perform a “long display” listing of the files in the current directory.

```
giancarlo@giancarlo-VirtualBox:/etc$ ls -l
total 1136
drwxr-xr-x  3 root root  4096 Aug  7 18:55 acpi
-rw-r--r--  1 root root  3028 Aug  7 18:52 adduser.conf
drwxr-xr-x  3 root root  4096 Aug  7 18:53 alsa
drwxr-xr-x  2 root root  4096 Sep  4 15:15 alternatives
-rw-r--r--  1 root root  335 Mar 23 2022 anacrontab
-rw-r--r--  1 root root  433 Mar 23 2022 apg.conf
drwxr-xr-x  5 root root  4096 Aug  7 18:53 apt
drwxr-xr-x  3 root root  4096 Aug  7 18:53 apparmor
drwxr-xr-x  7 root root  4096 Sep  4 15:19 apparmor.d
drwxr-xr-x  4 root root  4096 Aug  7 18:55 apport
-rw-r--r--  1 root root  769 Feb 22 2022 appstream.conf
```

Step 8: List all the files in the current directory that begin with the letter **s**.

```
giancarlo@giancarlo-VirtualBox:/etc$ ls s*
sensors3.conf  shadow-  subgid-  sudo.conf          sysctl.conf
services       shells   subuid   sudoers
shadow         subgid   subuid-  sudo_logsrvd.conf
```

Step 9: Run the command that will determine the type of contents in the **/etc/group** file.

```
giancarlo@giancarlo-VirtualBox:/etc$ file /etc/group
/etc/group: ASCII text
```

Step 10: Display only the **last five lines** of the **/etc/group** file.

```
giancarlo@giancarlo-VirtualBox:/etc$ tail -5 /etc/group
giancarlo:x:135:giancarlo
hal:x:1000:
sambashare:x:136:giancarlo
vboxsf:x:999:
vboxdrmipc:x:998:
```

Step 11: Execute the command to return to **your home directory**.

```
giancarlo@giancarlo-VirtualBox:/etc$ cd
giancarlo@giancarlo-VirtualBox:~$ pwd
/home/giancarlo
giancarlo@giancarlo-VirtualBox:~$
```

Step 12: Make a directory named **data** in the current directory.

```
giancarlo@giancarlo-VirtualBox:~$ ls
data  dir1  Downloads  Pictures  snap  Videos
Desktop  Documents  Music  Public  Templates
giancarlo@giancarlo-VirtualBox:~$
```

Step 13: Copy the `/etc/passwd` file into the data directory.

```
giancarlo@giancarlo-VirtualBox:~$ cp /etc/passwd data
giancarlo@giancarlo-VirtualBox:~$ ls data
passwd
```

Step 14: Copy the `/etc/ppp` directory into the current directory (and ignore any “Permission denied” error messages).

```
giancarlo@giancarlo-VirtualBox:~$ cp -r /etc/ppp /
cp: cannot create directory '/ppp': Permission denied
```

Step 15 & 16: Rename the ppp directory that is located in the current directory to `peers`. Execute the command (`ls`) to verify the change in the name of the directory.

```
giancarlo@giancarlo-VirtualBox:~$ mv ppp peers
giancarlo@giancarlo-VirtualBox:~$ ls
data  dir1  Downloads  peers  Public  Templates
Desktop  Documents  Music  Pictures  snap  Videos
```

Step 17: Create a new empty file named `test` in the `data` directory.

```
giancarlo@giancarlo-VirtualBox:~$ touch data/test
giancarlo@giancarlo-VirtualBox:~$ ls data
passwd  test
```

Step 18: Delete the `data/passwd` file.

```
giancarlo@giancarlo-VirtualBox:~$ rm data/passwd
giancarlo@giancarlo-VirtualBox:~$ ls data
test
```

Step 19 & 20: Delete the `peers` directory. Re-execute the `ls` command

```
giancarlo@giancarlo-VirtualBox:~$ rm -r peers
giancarlo@giancarlo-VirtualBox:~$ ls
data  dir1  Downloads  Pictures  snap  Videos
Desktop  Documents  Music  Public  Templates
giancarlo@giancarlo-VirtualBox:~$
```