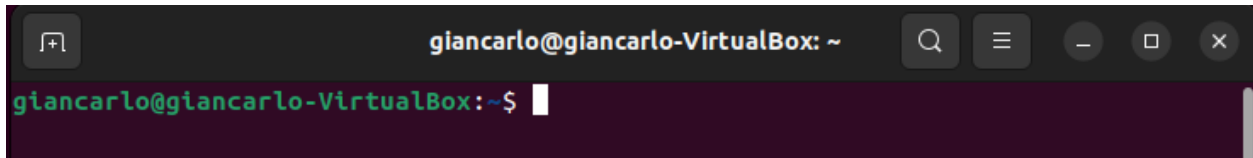


Step 1: Open a terminal window.

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

A terminal window titled "giancarlo@giancarlo-VirtualBox: ~" with a search icon, a menu icon, and window control buttons. The prompt is "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
appport              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 apm
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 appport
-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
x:x:135:giancarlo
nncarlo:x:1000:
sambashare:x:136:giancarlo
vboxsf:x:999:
vboxdrmpc: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:~$
```