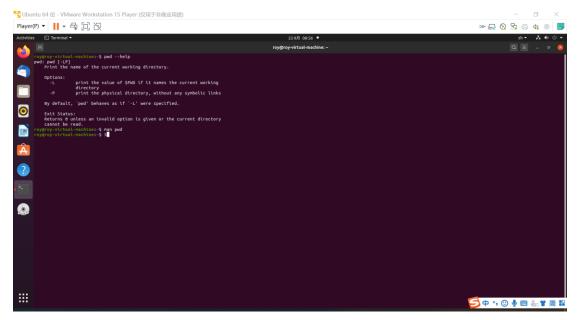
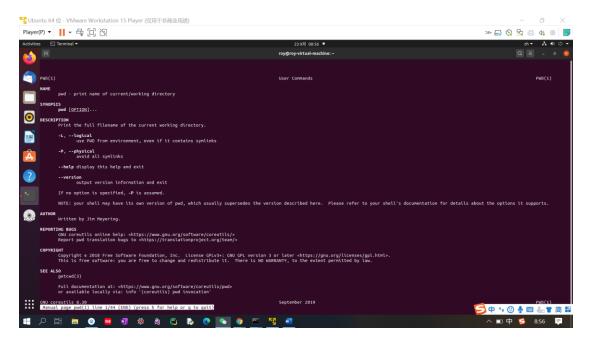
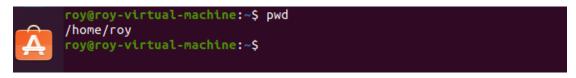
Basic



Command: pwd - help



Command: man pwd



Command: pwd, to print the current working directory.



Command: Is, list all the directories in the current working directory.

```
roy@roy-virtual-machine:-$ ls -a

. bash_history .bashrc .config Documents f1 .local Music Pictures Public .ssh Templates

. bash_logout .cache Desktop Downloads .gnupg .mozilla .pam_environment .profile snap .sudo_as_admin_successful Videos roy@roy-virtual-machine:-$
```

Command: Is -a, list all files

```
roy@roy-virtual-machine:~$ ls -l
total 40
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Desktop
                               11
                                   2020 Documents
drwxr-xr-x 2 roy roy 4096 6月
                               11
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Downloads
                               11
-rw-rw--w- 1 roy roy
                       86 6月
                               15
                                   2020 f1
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Music
                               11
drwxr-xr-x 2 roy roy 4096 9月
                               23 08:53 Pictures
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Public
drwxr-xr-x 3 roy roy 4096 6月
                               15
                                   2020 snap
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Templates
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Videos
roy@roy-virtual-machine:~$
```

Command: Is -I, long list of all the directories.

```
roy@roy-virtual-machine:~$ cd ..
roy@roy-virtual-machine:/home$ cd .
roy@roy-virtual-machine:/home$
```

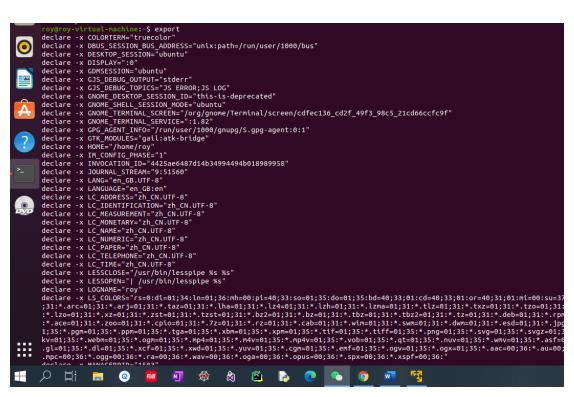
Command: cd .. cd. Change directory to the parent directory and change directory to the current directory.

roy@roy-virtual-machine:/home\$ history sudo apt-get install open-vm-tools 2 sudo apt-get install open-vm* reboot 3 4 ls 5 cd .. б ls cd roy 7 8 pwd 9 ls cd .. 10 11 pwd cd .. 12 13 pwd cd .. 14 15 pwd 16 cd roy 17 cd home 18 cd roy 19 pwd 20 ls 21 pwd cd Desktop 22 23 ls ls -l 24 25 cd ... 26 pwd 27 which bash 28 echo shell 29 cal 30 cal 6 2019 31 history 32 cal 6 2019 33 ls -l 34 hostname --help 35 man hostname 36 info hostname 37 pwd 38 ls 39 cd Desktop 40 cd ~ 41 pwd 42 cd .. 43 cd.. 44 cd .. 45 ls 46 ls -l 礟 **Q** 郁道 N

Command: history, list all the history commands.



Command: echo, to print out something on the terminal.



Command: export, show all variables

```
roy@roy-virtual-machine:~$ ls

Desktop Documents Downloads Music Pictures Public snap Templates Videos 
roy@roy-virtual-machine:~$ mkdir f1 
roy@roy-virtual-machine:~$ ls

Desktop Documents Downloads f1 Music Pictures Public snap Templates Videos 
roy@roy-virtual-machine:~$ mv f1 f2 
roy@roy-virtual-machine:~$ ls

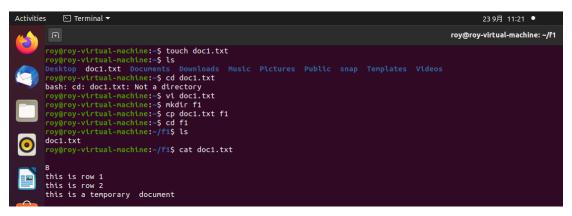
Desktop Documents Downloads f2 Music Pictures Public snap Templates Videos 
roy@roy-virtual-machine:~$ rm -rf f2 
roy@roy-virtual-machine:~$ ls

Desktop Documents Downloads Music Pictures Public snap Templates Videos 
roy@roy-virtual-machine:~$
```

Command: mkdir, mv, rm -rf; First make a directory named "f1", and then rename directory "f1" to "f2". Finally, remove directory "f2" recursively and forcedly.

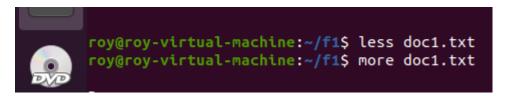
```
roy@roy-virtual-machine:~$ du
68
           ./snap/snap-store/common/.cache/immodules
           ./snap/snap-store/common/.cache/fontconfig
./snap/snap-store/common/.cache/gnome-software/icons
164
280
           ./snap/snap-store/common/.cache/gnome-software/odrs
1136
1236
           ./snap/snap-store/common/.cache/gnome-software/cssresource
756
           ./snap/snap-store/common/.cache/gnome-software/fwupd/remotes.d/lvfs
./snap/snap-store/common/.cache/gnome-software/fwupd/remotes.d
760
           ./snap/snap-store/common/.cache/gnome-software/fwupd
764
4408
           ./snap/snap-store/common/.cache/gnome-software/appstream
7828
           ./snap/snap-store/common/.cache/gnome-software
24
           ./snap/snap-store/common/.cache/gio-modules
8092
           ./snap/snap-store/common/.cache
8096
           ./snap/snap-store/common
           ./snap/snap-store/547/.local/share/icons/ubuntu-mono-light
./snap/snap-store/547/.local/share/icons/Adwaita
./snap/snap-store/547/.local/share/icons/Humanity
92
44
324
84
           ./snap/snap-store/547/.local/share/icons/ubuntu-mono-dark
           ./snap/snap-store/547/.local/share/icons/Humanity-Dark
./snap/snap-store/547/.local/share/icons/hicolor
./snap/snap-store/547/.local/share/icons/LoginIcons
44
8
8
608
           ./snap/snap-store/547/.local/share/icons
           ./snap/snap-store/547/.local/share/glib-2.0/schemas
./snap/snap-store/547/.local/share/glib-2.0
./snap/snap-store/547/.local/share
188
192
804
808
           ./snap/snap-store/547/.local
           ./snap/snap-store/547/.config/fontconfig
8
           ./snap/snap-store/547/.config/gtk-2.0
./snap/snap-store/547/.config/ibus
4
4
           ./snap/snap-store/547/.config/gtk-3.0
           ./snap/snap-store/547/.config/dconf
./snap/snap-store/547/.config/autostart
./snap/snap-store/547/.config
4
8
52
           ./snap/snap-store/547
868
92
           ./snap/snap-store/467/.local/share/icons/ubuntu-mono-light
           ./snap/snap-store/467/.local/share/icons/Adwaita
./snap/snap-store/467/.local/share/icons/Humanity
44
324
84
           ./snap/snap-store/467/.local/share/icons/ubuntu-mono-dark
44
           ./snap/snap-store/467/.local/share/icons/Humanity-Dark
           ./snap/snap-store/467/.local/share/icons/hicolor
./snap/snap-store/467/.local/share/icons/LoginIcons
8
8
           ./snap/snap-store/467/.local/share/icons
608
188
           ./snap/snap-store/467/.local/share/glib-2.0/schemas
           ./snap/snap-store/467/.local/share/glib-2.0
./snap/snap-store/467/.local/share
192
804
Q
        ⊒t
                                                                       P
                                             N
```

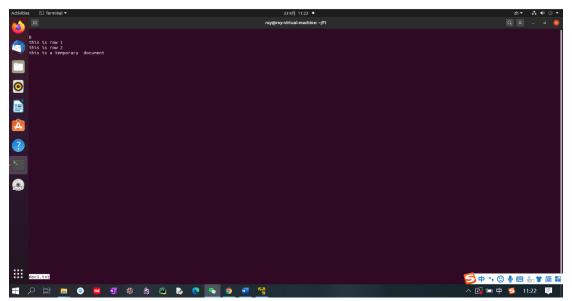
Command: du, give the disk usage descriptions

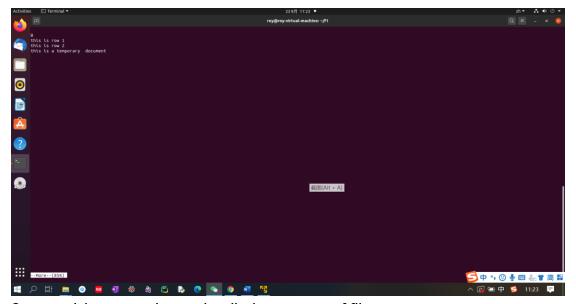


Command: touch, vi, cp, cat; First, create a .txt file by command touch. Then, enter

insert mode to modify the .txt file by command vi (filename). Next, copy the .txt file from the current directory to the directory "f1". Finally, display the contents of the file by command cat (filename).





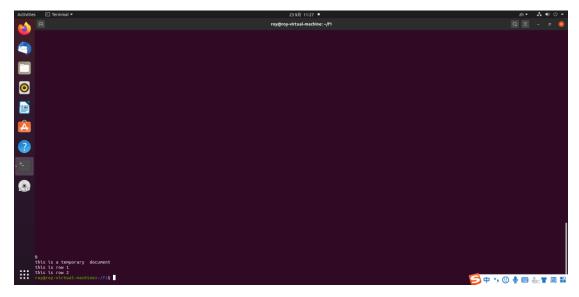


Command: less, more; interactive display contents of file.

```
roy@roy-virtual-machine:~/f1$ wc doc1.txt
64 14 121 doc1.txt
roy@roy-virtual-machine:~/f1$
```

Command: wc, print newline, word, and byte counts for each file.

```
roy@roy-virtual-machine:~/f1$ sort doc1.txt
```



Command: sort, sort lines of text files.

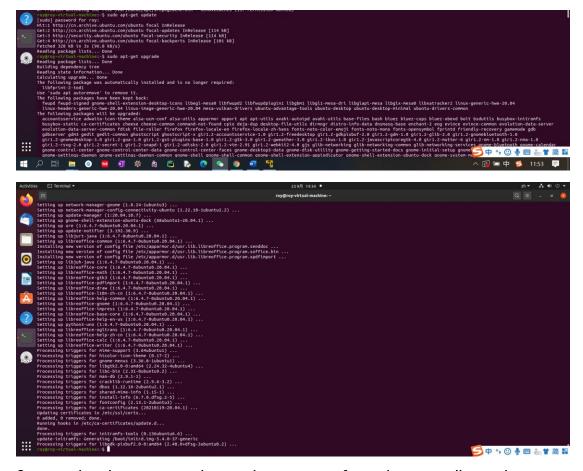
```
roy@roy-virtual-machine:~/f1$ cat doc1.txt | tr a-z A-Z

B
THIS IS ROW 1
THIS IS ROW 2
THIS IS A TEMPORARY DOCUMENT
```

Command: tr |, translate character from the lower case to upper case. Pipe the contents of the .txt file to the tr command.

```
roy@roy-virtual-machine:~/f1$ find doc1.txt
doc1.txt
roy@roy-virtual-machine:~/f1$ cat doc1.txt | grep this -i
this is row 1
this is row 2
this is a temporary document
```

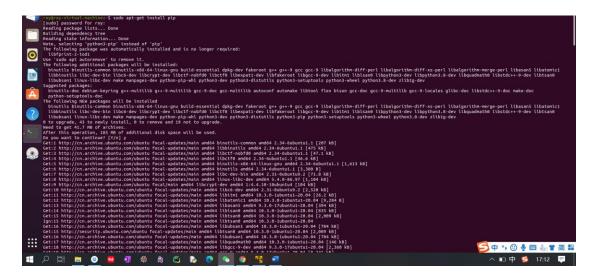
Command: find, grep, search for files in a directory hierarchy. Print lines matching a RE pattern (includes this without consider the cases)



Command: sudo ape-get update, update system software in a controller mode

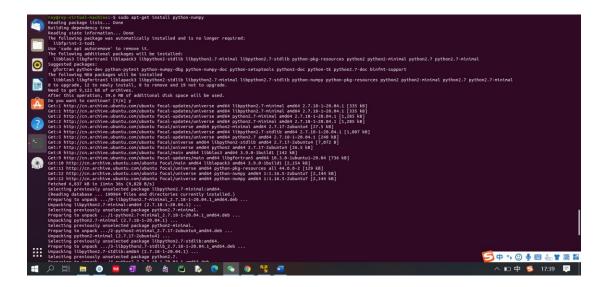


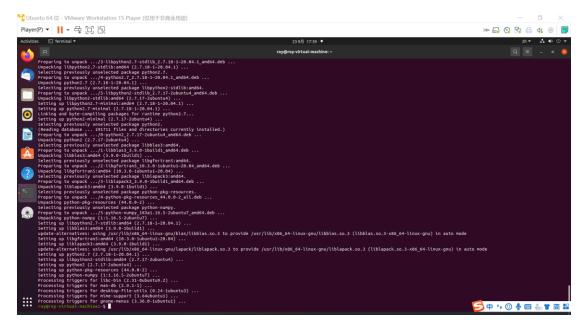
Command: sudo ape-get upgrade, upgrade system in a controller mode





Command: sudo ape-get install pip, install software "pip" in a controller mode





Command: sudo ape-get install python-numpy, install numpy package for Python in a controller mode

```
roy@roy-virtual-machine:~$ ls -l > myfile
roy@roy-virtual-machine:~$ cat < myfile
total 44
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Desktop
                      544 9月
-rw-rw-r-- 1 roy roy
                               23 20:35 doc1.txt
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Documents
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Downloads
                               11
drwxrwxr-x 2 roy roy 4096 9月
                               23 11:16 f1
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Music
-rw-rw-r-- 1 roy roy
                        0 9月
                               23 20:35 myfile
drwxr-xr-x 2 roy roy 4096 9月
                               23 08:53 Pictures
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Public
                               11
drwxr-xr-x 3 roy roy 4096 6月
                                   2020 snap
                               15
drwxr-xr-x 2 roy roy 4096 6月
                               11
                                   2020 Templates
drwxr-xr-x 2 roy roy 4096 6月
                                   2020 Videos
                               11
roy@roy-virtual-machine:~$
                                            Q
                               N
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```

Command: Is -I > myfile, cat < myfile; Use named pipes to redirect the output of Is -I to a file named "myfile", and redirect the input from the keyboard to the file contents.

```
roy@roy-virtual-machine:~$ echo "a" && echo "b" && echo "c"
a
b
c
roy@roy-virtual-machine:~$ echo "a" ; echo "b" ; echo "c"
a
b
c
roy@roy-virtual-machine:~$
```

Command: &&,; Execute multiple command in one line.