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Adventist University of Central Africa

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Course Code: COSC 8312

Assignment 1 – Introduction to Linux Basic commands

1. Branch Naming

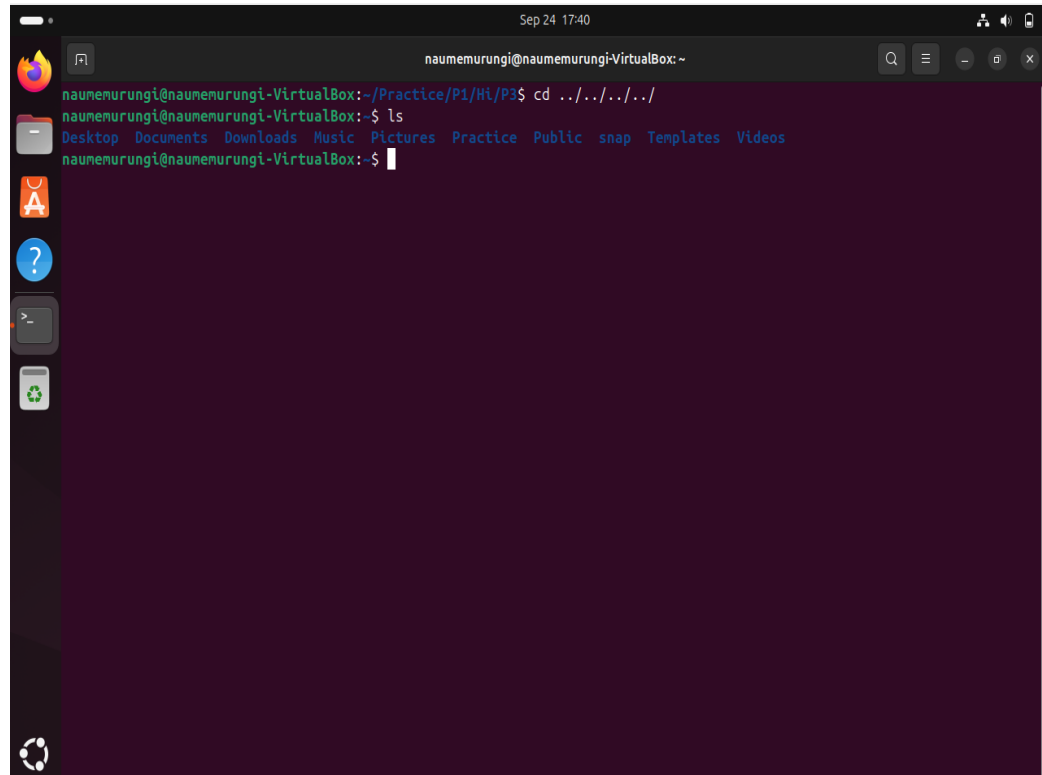
✓ **Naming format:**

✓ 26334_naume_murungi_assignment1

Qn1. The command to go to home:

1. using a relative path

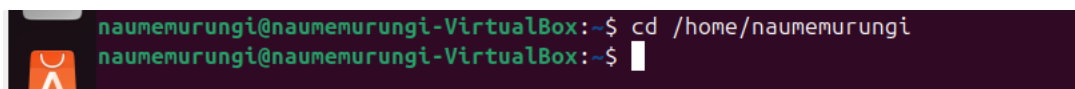
➤ `cd ../../../../..`

A terminal window titled 'naumemurungi@naumemurungi-VirtualBox: ~' with a timestamp of 'Sep 24 17:40'. The prompt is 'naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3\$'. The user enters 'cd ../../../../..' and the prompt changes to 'naumemurungi@naumemurungi-VirtualBox:~\$'. The user then enters 'ls' and the output shows a list of directories: 'Desktop Documents Downloads Music Pictures Practice Public snap Templates Videos'.

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$ cd ../../../../..
naumemurungi@naumemurungi-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Practice Public snap Templates Videos
naumemurungi@naumemurungi-VirtualBox:~$
```

2. using an absolute path:

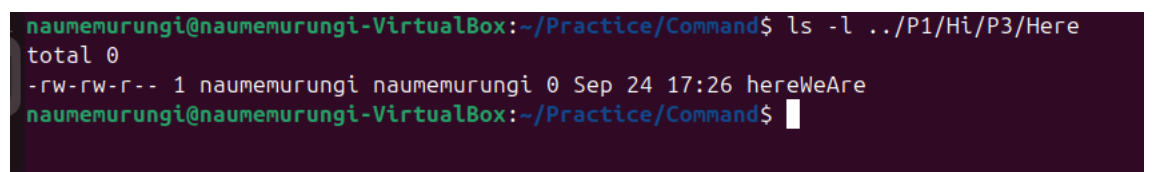
➤ `cd /home/naumemurungi`

A terminal snippet showing the command 'cd /home/naumemurungi' being entered and executed. The prompt changes from 'naumemurungi@naumemurungi-VirtualBox:~\$' to 'naumemurungi@naumemurungi-VirtualBox:~\$' after the command is run.

```
naumemurungi@naumemurungi-VirtualBox:~$ cd /home/naumemurungi
naumemurungi@naumemurungi-VirtualBox:~$
```

Qn2. Write the command show a long listing of **Here**:

1. using a relative path if you are in the **Command** directory

A terminal window showing the command 'ls -l ../P1/Hi/P3/Here' being entered and executed. The output shows a long listing of the directory 'hereWeAre' with permissions, owner, group, size, date, and filename.

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls -l ../P1/Hi/P3/Here
total 0
-rw-rw-r-- 1 naumemurungi naumemurungi 0 Sep 24 17:26 hereWeAre
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

2. using an absolute path:

```
drwxr-xr-x 2 naumemurungi naumemurungi 4096 Sep 24 16:46 videos
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls -l /home/naumemurungi/Practice/P1/Hi/P3/Here
total 0
-rw-rw-r-- 1 naumemurungi naumemurungi 0 Sep 24 17:26 hereWeAre
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

Qn3. Write the command to copy the file **P3** to the **Command** directory?

1. using a relative path if you are in the **P2** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$ cp -r ../Hi/P3/ ../../Command/
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$ ls ../../Command/
info P3
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$
```

2. using a relative path if you are in the **P3** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$ cp -r ../P3 ../../Command/
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$ ls ../../Command/
info P3
```

3. using a relative path if you are in the **Command** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ cp -r ../P1/Hi/P3/ ./
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls
info P3
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

4. using an absolute path

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ cp -r /home/naumemurungi/Practice/P1/Hi/P3/ /home/naumemurungi/Practice/Command/
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls
info P3
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

Qn4. Write the command to copy the files in **P3** to the **Command** directory?

1. using a relative path if you are in the **P2** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$ cp -r ../Hi/P3/* ../../Command/
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$ ls ../../Command/
Here info P3
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/P2$
```

2. using a relative path if you are in the **P3** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$ cp -r ../P3/* ../../../../Command/  
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$ ls ../../../../Command/  
Here info P3  
naumemurungi@naumemurungi-VirtualBox:~/Practice/P1/Hi/P3$
```

3. using a relative path if you are in the **Command** directory

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ cp -r ../P1/Hi/P3/* ./  
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls  
Here info P3  
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

4. using an absolute path

```
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ cp -r /home/naumemurungi/Practice/P1/Hi/P3/* /home/naumemurungi/  
/Practice/Command/  
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$ ls  
Here info P3  
naumemurungi@naumemurungi-VirtualBox:~/Practice/Command$
```

5. Difference between Question 3 and 4

- Q3 copies the entire directory (or file) named P3 into Command.
- Q4 copies only the contents (files inside P3) into Command, without bringing the P3 folder itself.

6. What do the colors mean?

- Yellow (info, Hello) → These are files.
- Blue (home, Practice, Else, Command, P1, etc.) → These are directories.
- hereWeAre → It is at the bottom of the tree, so it's most likely a file, not a directory and it should be shown as a regular file.

END