

# Linux Basic Commands

1. Which command is used to know the current working directory?

**Ans:** pwd

2. How would you find out its contents?

**Ans:** ls

3. Identify the commands with inputs to do the following

a. create a directory d1

**Ans:** mkdir d1

b. create a subdirectory d2 in d1

**Ans:** mkdir -p d1/d2

c. change to directory d2

**Ans:** cd d2

d. create an empty file "f1.txt"

**Ans:** touch f1.txt

e. display the contents of "f1.txt"

**Ans:** cat f1.txt

f. view the contents of d1 from current directory d2

**Ans:** ls ../d1

4. Use the ls command with its options. How will you identify directories from the listing?

**Ans: (i) ls -l :-** provides a long listing format that includes permissions, owner, group, size, and modification date.

**(ii) ls -F :-** Using ls -F appends a / to the names of directories, making it easier to identify them at a glance.

**(iii) ls -lF :-** can make it easier to identify directories by both format and append symbols.

5. Use ls to do the following

a. List files with single character names.

**Ans:** ls?

- b. List hidden files also. [ Note: Hidden files are files having name started with a “.”]

**Ans:** ls -a

- c. Suppose there are files tb1.1, tb2.1, tb3.1, .... tb10.1. Write command to list all the files [Hint: use wild card characters]

**Ans:** ls tb?.1 tb10.1

6. Write the command to list all files in descending order of their size.

**Ans:** ls -ls

7. Suppose there are files temp1, temp2, temp3. Write command to remove the files without listing them explicitly

**Ans:** rm temp\*

8. Which command is used to list top few lines in the file?

**Ans:** head -n <number\_of\_lines> <file\_name>

9. Create a directory “testdir”

**Ans:** mkdir testdir

10. Use cp command to do the following

- a. Copy the file tb1.1 (created above) in the same directory.

**Ans:** cp tb1.1 tb1\_copy.1

- b. Write a command to copy all the files i.e tb1.1, tb2.1, tb3.1, .... tb10.1 in a new directory –“new”

**Ans:** To create new directory: mkdir -p new

To copy all the files to the new directory: cp tb\*.1 new/

- c. Create a subdirectory in new in named “new1”.

**Ans:** mkdir -p new/new1

- d. Write a command to copy selectively only tb2.1, tb6.1, tb7.1 and tb10.1 in the directory new1.

**Ans:** cp tb2.1, tb6.1, tb7.1, tb10.1 new/new1/

- e. Write a command to copy the entire directory “new” to a directory “newprogs”. [Note : use the –R option of “cp” command ]

Ans: cp -R new newprogs

11. Find out the difference between

- a. “mv” & “cp”

**Ans:** “mv” relocates or renames files/directories without duplication.

“cp” duplicates files/directories, keeping the original intact.

- b. “rm”, “rmdir”

**Ans:** “rm” can delete files and directories (with -r for directories).

“rmdir” only deletes empty directories

- c. “mkdir” and “mkdir -p”

**Ans:** “mkdir” creates a single directory and returns an error if parent directories are missing

“mkdir -p” creates a specified directory along with any required parent directories.

12. Use a single command rmdir once to remove “testdir” and all its sub directories and files created above.

Ans: rm -r testdir

13. Which command is used to get the manual information of a command?

Ans: man <command\_name>

14. If you are not able to change to a directory what could be the likely cause?

Ans: 1. The specified directory may not exist or may be misspelled.

2. may not have the necessary permission to access the directory.

3. Using an absolute path incorrectly

4 might be trying to “cd” into a file instead of a directory.

5. There could be issue with the filesystem itself that prevent access to the directory

15. Explain the differences among the following commands:

Ans: a. `cd /` : Goes to the root directory.

b. `cd ..` : Moves to the Parent directory

c. `cd` : Moves to the user's home directory

d. `cd ../../` : Moves to the grandparent directory