

Lab-3 Assignment – LINUX Commands

\$logname: displayed the currently logged in user's name

output: isha

\$pwd: displayed the present working directory of the user

output: /home/isha/Desktop/lab_3

\$date: current date day and time

output: Sun Sep 2 11:00:57 PDT 2018

\$cal: displayed this month's calendar

output: September 2018

Su Mo Tu We Th Fr Sa

```
      1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
```

\$cal 2020: displayed 2020's calendar

output:

```
      2020
  January      February      March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4          1  1  2  3  4  5  6  7
 5  6  7  8  9 10 11  2  3  4  5  6  7  8  8  9 10 11 12 13 14
12 13 14 15 16 17 18  9 10 11 12 13 14 15 15 16 17 18 19 20 21
19 20 21 22 23 24 25 16 17 18 19 20 21 22 22 23 24 25 26 27 28
26 27 28 29 30 31  23 24 25 26 27 28 29 29 30 31
```

```
      April      May      June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3  4          1  2    1  2  3  4  5  6
 5  6  7  8  9 10 11  3  4  5  6  7  8  9  7  8  9 10 11 12 13
12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20
19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27
26 27 28 29 30  24 25 26 27 28 29 30 28 29 30
      31
```

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5			
6	7	8	9	10	11	12	7	8	9	10	11	12	6	7	8	9	10	11	12	
13	14	15	16	17	18	19	13	14	15	16	17	18	13	14	15	16	17	18	19	
20	21	22	23	24	25	26	20	21	22	23	24	25	20	21	22	23	24	25	26	
27	28	29	30	31			27	28	29	30			27	28	29	30	31			

```

output:  April 2020
Su Mo Tu We Th Fr Sa
      1 2 3 4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30

```

```
output: isha      :0      2018-09-01 09:30 (:0)
```

output: isha

output:

\$uptime: information about the time duration of server running and number of active users

```
output: 11:09:29 up 1:58, 1 user, load average: 0.08, 0.13, 0.17
```

\$which (command name): gives the path of the location of the command

input: which date

output: /bin / date

\$whereis (command name): gives the path of the location of the command and other files related to that command

input: whereis date

output: date: /bin/date /usr/share/man/man1/date.1.gz

\$tty: location of terminal file

output: /dev/pts/0

\$df: information about free space in disk

output:

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	1978280	0	1978280	0%	/dev
tmpfs	401572	2092	399480	1%	/run
/dev/sda1	102685624	8753592	88672872	9%	/
tmpfs	2007844	99008	1908836	5%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	2007844	0	2007844	0%	/sys/fs/cgroup
/dev/loop0	89088	89088	0	100%	/snap/core/4917
/dev/loop3	3840	3840	0	100%	/snap/gnome-system-monitor/51
/dev/loop1	2432	2432	0	100%	/snap/gnome-calculator/180
/dev/loop2	13312	13312	0	100%	/snap/gnome-characters/103
/dev/loop4	144384	144384	0	100%	/snap/gnome-3-26-1604/70
/dev/loop5	89088	89088	0	100%	/snap/core/5145
/dev/loop6	14848	14848	0	100%	/snap/gnome-logs/37
/dev/loop7	35584	35584	0	100%	/snap/gtk-common-themes/319
/dev/loop8	3840	3840	0	100%	/snap/gnome-system-monitor/54
/dev/loop9	14848	14848	0	100%	/snap/gnome-logs/40
/dev/loop10	2432	2432	0	100%	/snap/gnome-calculator/199
/dev/loop11	13312	13312	0	100%	/snap/gnome-characters/117
tmpfs	401568	16	401552	1%	/run/user/121
tmpfs	401568	60	401508	1%	/run/user/1000
/dev/loop12	90112	90112	0	100%	/snap/core/5328
/dev/loop13	30208	30208	0	100%	/snap/sublime-text/29

\$du: some information regarding disk usage

output: 48 .

\$clear: clears terminal screen

creating files

cat: file creations and editing

\$cat >filename: creates a (txt) file of this name and opens it for writing in it

input: cat >test_cat
Hello World!

\$cat <filename: displays content of the filename input

input : cat <test_cat

output: Hello World!

\$cat >>filename: appends (write after the last position of cursor) in the filename given

input: cat >>test_cat
appending more text

cat test_cat
output: Hello World!
appending more text

\$touch file1 file2 ... filen: creates n empty blank files at the same time

input: touch touch1 touch2 touch3

\$ls: displays the files (not all) in the present directory

output:

1st_file 3rd_file 5th_file test_cat touch2
2nd_file 4th_file Lab3-Assignment.odt touch1 touch3

variations in ls command:

\$ls-r: displays files in the reverse order in which they were created

output:
touch3 touch1 Lab3-Assignment.odt 4th_file 2nd_file
touch2 test_cat 5th_file 3rd_file 1st_file

\$ls -i: displays files with some id

output:
4197060 1st_file 4195711 4th_file 4194857 test_cat 4194859 touch3
4196080 2nd_file 4195712 5th_file 4194856 touch1

```
4197277 3rd_file 4197445 Lab3-Assignment.odt 4194858 touch2
```

\$ls -a: displays hidden files as well (in the pwd)

output:

```
.      2nd_file 5th_file          test_cat touch3
..     3rd_file Lab3-Assignment.odt touch1
1st_file 4th_file ~/.lock.Lab3-Assignment.odt# touch2
```

\$ls -l: long list of files with more information about them in the pwd

output:

total 44

```
-rw-r--r-- 1 isha isha 457 Sep 2 10:49 1st_file
-rw-r--r-- 1 isha isha 420 Sep 2 10:49 2nd_file
-rw-r--r-- 1 isha isha 493 Sep 2 10:50 3rd_file
-rw-r--r-- 1 isha isha 630 Sep 2 10:53 4th_file
-rw-r--r-- 1 isha isha 593 Sep 2 10:54 5th_file
-rw-rw-r-- 1 isha isha 18871 Sep 2 11:26 Lab3-Assignment.odt
-rw-r--r-- 1 isha isha 33 Sep 2 11:25 test_cat
-rw-r--r-- 1 isha isha 0 Sep 2 11:27 touch1
-rw-r--r-- 1 isha isha 0 Sep 2 11:27 touch2
-rw-r--r-- 1 isha isha 0 Sep 2 11:27 touch3
```

\$mkdir: creates a new directory in the pwd

input: mkdir Linux

\$mkdir dir1 dir2... dirn: will create n directories (of the input names) in the pwd

input: mkdir dir1 dir2 dir3

\$mkdir -p a/b/c.. : used to create nested directories with 'a' being the parent

input: mkdir -p world/asia/india/delhi
ls -R

output:

```
./world:
asia
```

```
./world/asia:
india
```

```
./world/asia/india:
delhi
```

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./world/asia/india/delhi:

navigating commands:

\$cd: change directory

\$cd .. : goes back to the directory just above the pwd

input: cd ..

\$cd ../../ : moves two directories above the pwd

input: cd ../../

\$cp: copies file(s) from one location to another

2nd_file: Raindrops the size of bullets thundered on the castle windows for days on end; the lake rose, the flower beds turned into muddy streams, and Hagrid's pumpkins swelled to the size of garden sheds. Oliver Wood's enthusiasm for regular training sessions, however, was not dampened, which was why Harry was to be found, late one stormy Saturday afternoon a few days before Halloween, returning to Gryffindor Tower, drenched to the skin and splattered with mud.

3rd_file: I trust that you also noticed that Tom riddle was already highly self-sufficient ,secretive and, apparently, friendless? He did not want help on companionship on his trip to diagon Alley. He preferred to operate alone. The adult Voldemort is the same. You will hear many of his Death Eaters claiming that they are in in his confidence,that they alone are close to him, even understand him. They are deluded. Lord Voldemort has never had a friend, nor do I believe that he has ever wanted one.

Input: cp 2nd_file 3rd_file
cat 3rd_file

output: Raindrops the size of bullets thundered on the castle windows for days on end; the lake rose, the flower beds turned into muddy streams, and Hagrid's pumpkins swelled to the size of garden sheds. Oliver Wood's enthusiasm for regular training sessions, however, was not dampened, which was why Harry was to be found, late one stormy Saturday afternoon a few days before Halloween, returning to Gryffindor Tower, drenched to the skin and splattered with mud.

\$cp file1 file2 directory: copies multiple files to the directory (give path if not in pwd)

input: cp 1st_file 2nd_file ../docs
cd ..
cd docs
ls

output: 1st_file 2nd_file

\$cp -R dir1 dir2: copies dir1 to dir2 (both in pwd, otherwise give path)

input: cp -R docs unix
cd unix
ls

output: docs

\$mv: move or rename directories/files

\$mv file1 file1_newname: rename the file to the new name

input: mv 1st_file 1st_file_renamed

output:

1st_file_renamed 3rd_file 5th_file Linux touch1 touch3
2nd_file 4th_file Lab3-Assignment.odt test_cat touch2 world

\$mv file dir: move file from pwd to dir (give correct path according to pwd)

input: mv 2nd_file safe/ (safe is inside pwd)
cd safe
ls

output: 2nd_file

\$rm: removes file or directories

\$rm -i filename: removes the file from the pwd

input: rm -i 3rd_file
ls

output:

1st_file_renamed 5th_file Linux test_cat touch2 world
4th_file Lab3-Assignment.odt safe touch1 touch3

\$rm -rf dir: removes the directory

input: rm -rf safe (in pwd which is lab_3)
ls

output:

1st_file_renamed 5th_file Linux touch1 touch3
4th_file Lab3-Assignment.odt test_cat touch2 world

\$file filename: displays the type of file filename

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input: file 5th_file

output: 5th_file: UTF-8 Unicode text, with very long lines

Wild Card Characters

* : matches with any number of characters in the filename

ls t* : displays all files whose names begin with t

output: test_cat touch1 touch2 touch3

ls t*t: displays all files whose name start and end with t

output: test_cat

rm t* : removes all files whose name starts with t

output: 1st_file_renamed 4th_file 5th_file Lab3-Assignment.odt Linux world (after ls)

rm *e: removes all files whose names end with e

output: 1st_file_renamed Lab3-Assignment.odt Linux world

cp -r L* world: copies all files whose names start with L to world directory

input: cp -r L* world