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1. pwd, cd, ls

```
File Edit View Search Terminal Help
piratepanda@SastaPC: ~/$ pwd
/home/piratepanda
piratepanda@SastaPC:~$ cd Downloads
piratepanda@SastaPC:~/Downloads$ ls
Telegram-100-2  masm  Telegram
'Linux commands.pdf'  matlab  'Telegram Desktop'
piratepanda@SastaPC:~/Downloads$ cd Telegram
piratepanda@SastaPC:~/Downloads/Telegram$ cd ..
piratepanda@SastaPC:~/Downloads$ cd
piratepanda@SastaPC:~$ cd -
/home/piratepanda/Downloads
piratepanda@SastaPC:~/Downloads$ cd
piratepanda@SastaPC:~$ cd Documents
piratepanda@SastaPC:~/Documents$ ls
19BCE1369_week2.pdf  javalab  MATLAB  microprocessorlab  oslab
piratepanda@SastaPC:~/Documents$ ls -R javalab
javalab:
README.md  week2

javalab/week2:
GoldSilver.java  resistance.java  salary.java  Student.java
piratepanda@SastaPC:~/Documents$ ls -a
.  19BCE1369_week2.pdf  MATLAB  oslab
..  javalab  microprocessorlab
piratepanda@SastaPC:~/Documents$ ls -al javalab
total 20
drwxrwxr-x 4 piratepanda piratepanda 4096 Feb  9 21:58 .
drwxr-xr-x 6 piratepanda piratepanda 4096 Feb 11 11:45 ..
drwxrwxr-x 8 piratepanda piratepanda 4096 Feb 10 11:47 .git
-rw-rw-r-- 1 piratepanda piratepanda  9 Feb  9 21:58 README.md
drwxrwxr-x 2 piratepanda piratepanda 4096 Feb 10 15:34 week2
piratepanda@SastaPC:~/Documents$ |
```

2. cat

```
File Edit View Search Terminal Help
piratepanda@SastaPC: ~/Documents/javalab/week2
piratepanda@SastaPC:~/Documents/javalab/week2$ ls
GoldSilver.java  resistance.java  salary.java  Student.java
piratepanda@SastaPC:~/Documents/javalab/week2$ cat salary.java
import java.util.Scanner;
public class salary
{
    public static void main(String[] args) {
        int sal;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the salary");
        sal = in.nextInt();
        for (int i=1; i<30; i++)
        {
            sal=2*sal;
        }
        System.out.println(sal);
    }
}
piratepanda@SastaPC:~/Documents/javalab/week2$ |
```

3. cp

```
piratepanda@SastaPC: ~/Pictures
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab/week2$ cp salary.java /
home/piratepanda/Pictures
piratepanda@SastaPC:~/Documents/javablab/week2$ cd
piratepanda@SastaPC:~$ cd Pictures
piratepanda@SastaPC:~/Pictures$ ls
salary.java
piratepanda@SastaPC:~/Pictures$ |
```

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4. mv

```
piratepanda@SastaPC: ~/Documents
File Edit View Search Terminal Help
piratepanda@SastaPC:~$ cd Pictures
piratepanda@SastaPC:~/Pictures$ ls
salary.java
piratepanda@SastaPC:~/Pictures$ mv salary.java /home/piratepanda/Documents
piratepanda@SastaPC:~/Pictures$ cd
piratepanda@SastaPC:~$ cd Documents
piratepanda@SastaPC:~/Documents$ ls
19BCE1369_week2.pdf  MATLAB  oslab
javablab             microprocessorlab  salary.java
piratepanda@SastaPC:~/Documents$ |
```

5. mkdir

```
piratepanda@SastaPC: ~
File Edit View Search Terminal Help
piratepanda@SastaPC:~$ ls
1.sh      Downloads  Pictures  Templates
Desktop   Music      Public    Videos
Documents node_modules snap      'VirtualBox VMs'
piratepanda@SastaPC:~$ mkdir new
piratepanda@SastaPC:~$ ls
1.sh      Music      Public    'VirtualBox VMs'
Desktop   new        snap
Documents node_modules Templates
Downloads Pictures   Videos
piratepanda@SastaPC:~$ |
```

6. rmdir

```
piratepanda@SastaPC:~$ ls
1.sh      Music      Public     'VirtualBox VMs'
Desktop   new        snap
Documents node_modules Templates
Downloads Pictures    Videos

piratepanda@SastaPC:~$ rmdir new
piratepanda@SastaPC:~$ ls
1.sh      Downloads  Pictures    Templates
Desktop   Music      Public      Videos
Documents node_modules snap        'VirtualBox VMs'
piratepanda@SastaPC:~$ |
```

7.rm, rm -r,touch

```
piratepanda@SastaPC: ~/Documents
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents$ mkdir new
piratepanda@SastaPC:~/Documents$ cd new
piratepanda@SastaPC:~/Documents/new$ touch 1.txt
piratepanda@SastaPC:~/Documents/new$ touch 2.txt
piratepanda@SastaPC:~/Documents/new$ ls
1.txt 2.txt
piratepanda@SastaPC:~/Documents/new$ cd ..
piratepanda@SastaPC:~/Documents$ rm new
rm: cannot remove 'new': Is a directory
piratepanda@SastaPC:~/Documents$ rm -r new
piratepanda@SastaPC:~/Documents$ ls
19BCE1369_week2.pdf  MATLAB          oslab
javablab             microprocessorlab salary.java
piratepanda@SastaPC:~/Documents$ |
```

8. locate,find

```
piratepanda@SastaPC: ~/Documents
File Edit View Search Terminal Help
piratepanda@SastaPC:~$ locate salary.java
/home/piratepanda/Documents/javablab/week2/salary.java
piratepanda@SastaPC:~$ cd Documents
piratepanda@SastaPC:~/Documents$ find .-name salary.java
find: './-name': No such file or directory
salary.java
piratepanda@SastaPC:~/Documents$ find -name salary.java
./salary.java
./javablab/week2/salary.java
piratepanda@SastaPC:~/Documents$ |
```

9. grep, sudo

```
piratepanda@SastaPC: ~/Documents
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents$ grep Scanner javalab/week2/sal
ary.java
import java.util.Scanner;
    Scanner in = new Scanner(System.in);
piratepanda@SastaPC:~/Documents$ sudo ls
[sudo] password for piratepanda:
19BCE1369_week2.pdf  MATLAB          oslab
javalab              microprocessorlab salary.java
piratepanda@SastaPC:~/Documents$ |
```

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10. df


```
piratepanda@SastaPC: ~/Documents/javablab
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab$ df -m
Filesystem      1M-blocks    Used Available Use% Mounted on
udev              1876         0       1876    0% /dev
tmpfs              385          2        383    1% /run
/dev/nvme0n1p5   47805  22891    22457   51% /
tmpfs             1921         13       1908    1% /dev/shm
tmpfs              5            1          5    1% /run/lock
tmpfs             1921          0       1921    0% /sys/fs/cgroup
/dev/loop0         99          99          0 100% /snap/core/10823
/dev/loop1         56          56          0 100% /snap/core18/1988
/dev/loop2         26          26          0 100% /snap/heroku/4017
/dev/loop3        173         173          0 100% /snap/spotify/43
/dev/nvme0n1p1     256          37        220   15% /boot/efi
/dev/nvme0n1p7   97282  9658    82640   11% /home
tmpfs              385          1        384    1% /run/user/1000
piratepanda@SastaPC:~/Documents/javablab$ |
```

11. du

```
piratepanda@SastaPC: ~/Documents/javablab
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab$ du -h
12K      ../git/refs/remotes/origin
16K      ../git/refs/remotes
4.0K     ../git/refs/tags
8.0K     ../git/refs/heads
32K      ../git/refs
12K      ../git/logs/refs/remotes/origin
16K      ../git/logs/refs/remotes
8.0K     ../git/logs/refs/heads
28K      ../git/logs/refs
36K      ../git/logs
4.0K     ../git/branches
8.0K     ../git/objects/56
8.0K     ../git/objects/57
8.0K     ../git/objects/97
8.0K     ../git/objects/51
8.0K     ../git/objects/1b
8.0K     ../git/objects/70
8.0K     ../git/objects/3d
8.0K     ../git/objects/34
4.0K     ../git/objects/pack
8.0K     ../git/objects/8e
8.0K     ../git/objects/5f
4.0K     ../git/objects/info
92K      ../git/objects
56K      ../git/hooks
8.0K     ../git/info
264K     ../git
20K      ../week2
292K     .
piratepanda@SastaPC:~/Documents/javablab$ |
```

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12. head

```
piratepanda@SastaPC: ~/Documents/javablab/week2
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab$ cd week2
piratepanda@SastaPC:~/Documents/javablab/week2$ head salary.java
import java.util.Scanner;
public class salary
{
    public static void main(String[] args) {
        int sal;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the salary");
        sal = in.nextInt();
        for (int i=1; i<30; i++)
        {
piratepanda@SastaPC:~/Documents/javablab/week2$ |
```

13. tail

```
piratepanda@SastaPC: ~/Documents/javablab/week2
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab/week2$ tail salary.java
    Scanner in = new Scanner(System.in);
    System.out.println("Enter the salary");
    sal = in.nextInt();
    for (int i=1; i<30; i++)
    {
        sal=2*sal;
    }
    System.out.println(sal);
}
piratepanda@SastaPC:~/Documents/javablab/week2$ |
```

14. diff

```

piratepanda@SastaPC: ~/Documents/javablab/week2
File Edit View Search Terminal Help
piratepanda@SastaPC:~/Documents/javablab/week2$ ls
GoldSilver.java  resistance.java  salary.java  Student.java
piratepanda@SastaPC:~/Documents/javablab/week2$ diff resistance.
java salary.java
2,4c2,5
<
< public class resistance{
<     public static void main(String args[]){
---
> public class salary
> {
>     public static void main(String[] args) {
>         int sal;
6,14c7,14
<         System.out.println("Enter length");
<         double length = in.nextDouble();
<         System.out.println("Enter diameter");
<         double dia = in.nextDouble();
<         System.out.println("Enter resistivity");
<         double r = in.nextDouble();
<         double rn = r*(4*length/3.14*dia*dia);
<         System.out.println("The resistance is : "+rn);
<     }
---
>         System.out.println("Enter the salary");
>         sal = in.nextInt();
>         for (int i=1; i<30; i++)
>         {
>             sal=2*sal;
>         }
>         System.out.println(sal);
>     }
piratepanda@SastaPC:~/Documents/javablab/week2$ |

```

15. ping

```
File Edit View Search Terminal Help
piratepanda@SastaPC: ~
piratepanda@SastaPC:~$ ping www.facebook.com
PING star-mini.c10r.facebook.com (31.13.79.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=1 ttl=54 time=203 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=2 ttl=54 time=59.1 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=3 ttl=54 time=307 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=4 ttl=54 time=349 ms
64 bytes from edge-star-mini-shv-02-bom1.facebook.com (31.13.79.35): icmp_seq=5 ttl=54 time=170 ms
^C
--- star-mini.c10r.facebook.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 886lms
rtt min/avg/max/mdev = 59.052/217.398/348.569/102.682 ms
piratepanda@SastaPC:~$ |
```

16. wget

```
File Edit View Search Terminal Help
piratepanda@SastaPC: ~
piratepanda@SastaPC:~$ wget https://datahub.io/datahq/lmb-test#resource-lmb-test
--2021-02-13 11:47:04-- https://datahub.io/datahq/lmb-test
Resolving datahub.io (datahub.io)... 104.21.40.221, 172.67.157.38, 2606:4700:3030::ac43:9d26, ...
Connecting to datahub.io (datahub.io)|104.21.40.221|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'lmb-test'

lmb-test                                     [ <=> ] 40.51K 215KB/s in 0.2s

2021-02-13 11:47:07 (215 KB/s) - 'lmb-test' saved [41485]
piratepanda@SastaPC:~$ |
```

17. uname, uname -a

```
File Edit View Search Terminal Help
piratepanda@SastaPC: ~
piratepanda@SastaPC:~$ uname
Linux
piratepanda@SastaPC:~$ uname -a
Linux SastaPC 5.4.0-65-generic #73-Ubuntu SMP Mon Jan 18 17:25:17 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
piratepanda@SastaPC:~$ |
```

18. history

```
File Edit View Search Terminal Help
piratepanda@SastaPC:~$ history
190 sudo apt-get upgrade
191 cd Downloads
192 dir
193 cd
194 cd Documents
195 dir
196 cd UdemyWebBootcamp
197 dir
198 mkdir NodeJS
199 cd NodeJS
200 touch helloworld.js
201 xed helloworld.js
202 node helloworld.js
203 clear
204 upower -e -d
205 upower -i /org/freedesktop/UPower/devices/battery_BAT0
206 upower -i /org/freedesktop/UPower/devices/battery_BAT1
207 upower -i /org/freedesktop/UPower/devices/battery_BAT0
208 inxxi -Fxxxz
209 inxi -Fxxxz
210 node --version
211 clear
212 ls
213 dir
214 sudo apt autoremove
215 clear
216 pwd
217 cd Documents/UdemyWebBootcamp/NodeJS
218 clear
219 ls
220 rm helloworld.js
221 ls
222
```

19. man tail

```
File Edit View Search Terminal Help
TAIL(1) User Commands TAIL(1)

NAME
    tail - output the last part of files

SYNOPSIS
    tail [OPTION]... [FILE]...

DESCRIPTION
    Print the last 10 lines of each FILE to standard output.  With more than one FILE, precede each with a header giving the file name.

    With no FILE, or when FILE is -, read standard input.

    Mandatory arguments to long options are mandatory for short options too.

    -c, --bytes=[+]NUM
        output the last NUM bytes; or use -c +NUM to output starting with byte NUM of each file

    -f, --follow[={name|descriptor}]
        output appended data as the file grows;

        an absent option argument means 'descriptor'

    -F
        same as --follow=name --retry

    -n, --lines=[+]NUM
        output the last NUM lines, instead of the last 10; or use -n +NUM to output starting with line NUM

    --max-unchanged-stats=N
        with --follow=name, reopen a FILE which has not

Manual page tail(1) line 1 (press h for help or q to quit)
```