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## WEEK 12

Roll no: 422161

```
#!/bin/bash
echo ""
echo "bc : to perform mathematical calculations"
echo "5+10" | bc
echo "sqrt(16)" | bc
echo ""
echo "comm : Compare two sorted files line by line"
comm <(sort file1.txt) <(sort file2.txt)
echo ""
echo "chown - Change file owner and group"
sudo chown yot:developers file5.txt
echo ""
echo "chgrp - Change group ownership"
sudo chgrp developers file5.txt
echo ""
echo "cron - Scheduling tasks"
crontab -e
echo ""
echo "dd - Copy and convert files"
dd if=file1.txt of=outputfile.txt
echo ""
echo "diff - Compare files line by line"
diff file1.txt file2.txt
echo ""
echo "finger - Display information about user"
finger kstra
echo ""
echo "find - Search files and directories"
find /home/kstra/Desktop -name "*.txt"
echo ""
echo "ftp - File Transfer Protocol"
ftp ftp://192.168.65.90:2221
echo ""
echo "ln - Create links between files"
ln -s /home/kstra/Desktop/unix2/week3/abc.txt /home/kstra/Desktop/week12
echo "link created"
echo ""
echo "lp - Print files"
lp file1.txt
echo "lp executed"
echo ""
echo "lpstat - Display printer status information"
lpstat -p
echo "lpstat executed"
echo ""
echo "mesg - Control write access to your terminal"
mesg y
echo "mesg executed"
```

```
kstra@kstra-VirtualBox: ~/Desktop/unix/week12

kstra@kstra-VirtualBox:~/Desktop/unix$ cd week12/
kstra@kstra-VirtualBox:~/Desktop/unix/week12$ ls
abc.txt file1.txt file2.txt file4.txt file5.txt outputfile.txt put q.sh
kstra@kstra-VirtualBox:~/Desktop/unix/week12$ ./q.sh

bc : to perform mathematical calculations
15
4

comm : Compare two sorted files line by line
1
2
3
4
5
6
7
8

chown - Change file owner and group

chgrp - Change group ownership

cron - Scheduling tasks
No modification made

dd - Copy and convert files
0+1 records in
0+1 records out
10 bytes copied, 0.000226534 s, 44.1 kB/s

diff - Compare files line by line
1,3d0
< 1
< 2
< 3
5a3,5
> 6
> 7
> 8
```

```
kstra@kstra-VirtualBox: ~/Desktop/unix/week12

5a3,5
> 6
> 7
> 8

finger - Display information about user
Login: kstra Name: kstra
Directory: /home/kstra Shell: /bin/bash
On since Wed Apr 10 01:01 (IST) on tty2 from tty2
3 hours 3 minutes idle
No mail.
No Plan.

find - Search files and directories
/home/kstra/Desktop/unix/week4_5/file4.txt
/home/kstra/Desktop/unix/week4_5/file1.txt
/home/kstra/Desktop/unix/week3/week3.txt
/home/kstra/Desktop/unix/week3/state.txt
/home/kstra/Desktop/unix/week3/capitalised.txt
/home/kstra/Desktop/unix/week3/sample.txt
/home/kstra/Desktop/unix/week3/number.txt
/home/kstra/Desktop/unix/week3/places.txt
/home/kstra/Desktop/unix/week3/sorted.txt
/home/kstra/Desktop/unix/week3/sorted_place.txt
/home/kstra/Desktop/unix/week3/abc.txt
/home/kstra/Desktop/unix/week12/file4.txt
/home/kstra/Desktop/unix/week12/file5.txt
/home/kstra/Desktop/unix/week12/file2.txt
/home/kstra/Desktop/unix/week12/outputfile.txt
/home/kstra/Desktop/unix/week12/file1.txt
/home/kstra/Desktop/unix/week12/abc.txt
/home/kstra/Desktop/unix/week6/output/week6.txt
/home/kstra/Desktop/unix2/week3/week3.txt
/home/kstra/Desktop/unix2/week3/state.txt
/home/kstra/Desktop/unix2/week3/capitalised.txt
/home/kstra/Desktop/unix2/week3/sample.txt
/home/kstra/Desktop/unix2/week3/number.txt
/home/kstra/Desktop/unix2/week3/places.txt
/home/kstra/Desktop/unix2/week3/sorted.txt
/home/kstra/Desktop/unix2/week3/sorted_place.txt
```

```
kstra@kstra-VirtualBox: ~/Desktop/unix/week12

/home/kstra/Desktop/unix/week12/abc.txt
/home/kstra/Desktop/unix/week6/output/week6.txt
/home/kstra/Desktop/unix2/week3/week3.txt
/home/kstra/Desktop/unix2/week3/state.txt
/home/kstra/Desktop/unix2/week3/capitalised.txt
/home/kstra/Desktop/unix2/week3/sample.txt
/home/kstra/Desktop/unix2/week3/number.txt
/home/kstra/Desktop/unix2/week3/places.txt
/home/kstra/Desktop/unix2/week3/sorted.txt
/home/kstra/Desktop/unix2/week3/sorted_place.txt
/home/kstra/Desktop/unix2/week3/abc.txt
/home/kstra/Desktop/unix2/week6/output/week6.txt
/home/kstra/Desktop/unix2/week4/file4.txt
/home/kstra/Desktop/unix2/week4/file1.txt

ftp - File Transfer Protocol
Connected to 192.168.65.90.
220 Service ready for new user.
331 Guest login okay, send your complete e-mail address as password.
230 User logged in, proceed.
Remote system type is UNIX.
Using binary mode to transfer files.
200 Command TYPE okay.
ftp> ^D
221 Goodbye.

ln - Create links between files
link created

lp - Print files
lp: Error - No default destination.
lp executed

lpstat - Display printer status information
lpstat: No destinations added.
lpstat executed

mesg - Control write access to your terminal
mesg executed
kstra@kstra-VirtualBox:~/Desktop/unix/week12$
```