

CS256 ASSIGNMENT-6
UNIX AND SHELL SCRIPTING LAB
ROLL NO -422151
SEC-A

Write shell script for commands:

bc,comm,chown,chgrp,cron,dd,diff,finger,
find,ftp,lock,ln,lp,lpstat,mesg

Assignment_6.sh

bc - basic calculator

echo "echo 10 + 5 | bc"

echo "10 + 5" | bc

echo ""

comm - compare two sorted files line by line

echo "comm file1.txt file2.txt"

comm file1.txt file2.txt

echo ""

chown - change file owner and group

echo "sudo chown student:adm file1.txt"

```
sudo chown student:adm file1.txt  
echo ""
```

```
# chgrp - change group ownership  
echo "sudo chgrp adm file1.txt"  
sudo chgrp adm file1.txt  
echo ""
```

```
# dd - convert and copy a file  
echo "dd if=file1.txt of=output_file.txt"  
dd if=file1.txt of=output_file.txt  
echo ""
```

```
# diff - compare files line by line  
echo "diff file1.txt file2.txt"  
diff file1.txt file2.txt  
echo ""
```

```
# finger - user information lookup  
echo "finger student"  
finger student  
echo ""
```

find - search for files in a directory hierarchy

echo "find "output_file.txt""

find "output_file.txt"

echo ""

lock - lock a file

echo "lock file1.txt"

lock file1.txt

echo ""

ln - create links

echo "ln -s file1.txt symbolic_link.txt"

echo "ln file2.txt hard_link.txt"

ln -s file1.txt symbolic_link.txt

ln file2.txt hard_link.txt

echo ""

lp - print files

echo "lp file2.txt"

lp file2.txt

echo ""

lpstat - printer status information

echo "lpstat -p"

lpstat -p

echo ""

mesg - control write access to your terminal

echo "mesg y"

mesg y

echo ""

#cron-used to schedule tasks

echo "*/1 * * * *

/home/student/Desktop/422151/scriptlab/stat_and_dyn_2"

> cron_job.txt

crontab cron_job.txt

ftp - file transfer protocol

echo "ftp vsftpd.com "

ftp vsftpd.com

OUTPUT

```
(base) student@24:~/Desktop/422151/scriptlab/Assignment 6$ chmod +x Assignment_6.sh
(base) student@24:~/Desktop/422151/scriptlab/Assignment 6$ ./Assignment_6.sh
echo 10 + 5 | bc
15

comm file1.txt file2.txt
      apple
      banana
    grape
orange
      zebra
comm: file 2 is not in sorted order

sudo chown student:adm file1.txt
[sudo] password for student:

sudo chgrp adm file1.txt

dd if=file1.txt of=output_file.txt
0+1 records in
0+1 records out
26 bytes copied, 6.2658e-05 s, 415 kB/s

diff file1.txt file2.txt
3c3
< orange
---
> grape
4a5
>

finger student
Login: student                Name:
Directory: /home/student      Shell: /bin/bash
On since Thu Apr  4 10:08 (IST) on :0 from :0 (messages off)
No mail.
No Plan.

find output_file.txt
output_file.txt

lock file1.txt
./Assignment_6.sh: line 44: lock: command not found
```

```
lock file1.txt
./Assignment_6.sh: line 44: lock: command not found

ln -s file1.txt symbolic_link.txt
ln file2.txt hard_link.txt

lp file2.txt
lp: Error - No default destination.

lpstat -p
printer Brother_DCP_B7535DW_series is idle.  enabled since Thursday 04 April 2024 10:07:34 AM
printer Canon_iR2006_2206 is idle.  enabled since Tuesday 29 August 2023 02:20:10 PM
printer Canon_iR2006_2206@Canon740b8d.local is idle.  enabled since Thursday 04 April 2024 10:40:55 AM
printer Canon_iR2006_2206@Canon740bf2.local is idle.  enabled since Tuesday 29 August 2023 02:58:18 PM
printer Canon_iR2006_2206_1 is idle.  enabled since Tuesday 29 August 2023 02:22:22 PM
printer Canon_iR2006_2206_1@Canon740b33.local is idle.  enabled since Thursday 04 April 2024 10:06:36 AM
printer HP_LaserJet_Pro_M329_DF8BEF_ is idle.  enabled since Monday 04 April 2022 02:55:41 PM
printer jkmurthy_sos is idle.  enabled since Thursday 04 April 2024 10:40:31 AM
printer snb_HP_LaserJet_Pro_M329_DF2BAB_ is idle.  enabled since Wednesday 19 July 2023 12:00:24 AM

mesg y

ftp vsftpd.com
Trying 76.223.54.146:21 ...
ftp: Can't connect to `76.223.54.146:21': Connection timed out
Trying 13.248.169.48:21 ...
ftp: Can't connect to `13.248.169.48:21': Connection timed out
ftp: Can't connect to `vsftpd.com:ftp'
ftp> █
```