

UNIX ASSIGNMENT – 6

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SECTION: A

Write shell script for commands
: bc,comm,chown,chgrp,cron,dd,diff,finger,find,ftp,lock,l
n,lp,lpstat,mesg .

Code:

```
# 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 file1.txt"
```

```
sudo chown student 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
```

```
#!/bin/bash
```

```
echo "=====FILE LOCKING====="
```

```
echo "Enter locking Mode (R/W): "
```

```
read mode
if [ "$mode" = "R" ]; then
    mode="-s"
else
    mode="-x"
fi

echo "Enter file path: "
read path

echo "Command to execute after locking: "
read command

runcommand="flock $mode $path-c '$command'"
eval "$runcommand"

# 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 ""
```

```
# ftp- file transfer protocol
```

```
echo "ftp vsftpd.com "
```

```
ftp vsftpd.com
```

OUTPUT:

```
echo 10 + 5 | bc
```

```
15
```

```
comm file1.txt file2.txt
```

```
hii
```

```
comm: file 2 is not in sorted order
```

```
fine
```

```
hiii
```

```
how are you
```

```
my name is pavithra
```

how do you do?

your name please

sudo chown student 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

34 bytes copied, 0.000405586 s, 83.8 kB/s

diff file1.txt file2.txt

1,3c1,4

< hiii

< how are you

< your name please

> hii

> fine

> my name is pavithra

> how do you do?

finger student

something.sh: line 33: finger: command not found

find output_file.txt

output_file.txt

=====FILE LOCKING=====

Enter locking Mode (R/W):

w

Enter file path:

home

Command to execute after locking:

file1.txt

/bin/bash: file1.txt: 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 Wednesday 03 April 2024 02:17:41 PM

printer Canon_iR2006_2206_1_ is idle. enabled since Monday 21 August 2023 03:14:52 PM

printer Canon_iR2006_2206_1_@Canon740ae5.local is idle. enabled since Wednesday 20 March 2024 10:18:12 AM

printer Canon_iR2006_2206_1_@Canon740b8d.local is idle. enabled since Wednesday 03 April 2024 02:09:39 PM

printer Canon_iR2006_2206_2_ is idle. enabled since Friday 22 March 2024 11:06:08 AM

printer Canon_MF240 is idle. enabled since Tuesday 27 July 2021 08:24:24 AM

printer Canon_MF260_1_ is idle. enabled since Friday 08 October 2021 10:20:37 AM

printer HP_LaserJet_Pro_M329_8ED0C2_ is idle. enabled since Tuesday 27 July 2021 01:35:07 AM

printer HP_LaserJet_Pro_M329_DF2B69_ is idle. enabled since Monday 25 October 2021 10:42:46 AM

printer HP_LaserJet_Pro_M329_DF2BAB_ is idle. enabled since Wednesday 28 September 2022 08:03:13 AM

printer jkmurthy_sos is idle. enabled since Wednesday 03 April 2024 02:37:19 PM

mesg y

ftp vsftpd.com

ftp: connect to address 13.248.169.48: Connection timed out

Trying 76.223.54.146...