

UNIX-LAB

WEEK-06

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SECTION:A

ROLLNO:422148

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

Code:

```
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_0$ ./unix.sh
bash: ./unix.sh: Permission denied
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_0$ chmod +x unix.sh
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_0$ ./unix.sh
usage: bc [options] [file ...]
  -h --help            print this usage and exit
  -i --interactive     force interactive mode
  -l --mathlib         use the predefined math routines
  -q --quiet          don't print initial banner
  -s --standard       non-standard bc constructs are errors
  -w --warn           warn about non-standard bc constructs
  -v --version        print version information and exit
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
value of sine 30 is
-.98803162409286178998
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type 'warranty'.
warranty
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software Foundation, Inc.

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You should have received a copy of the GNU General Public License
along with this program. If not, write to

The Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335 USA
```

```
^C
(interrupt) use quit to exit.
quit
quit
Aarav
Priya
comm: file 2 is not in sorted order
Arjun
Aisha
comm: file 1 is not in sorted order

Emilly
Jacob
comm: file 2 is not in sorted order
Sophia
comm: file 1 is not in sorted order
Liam

      Aarav
Emilly
Jacob
      Priya
comm: file 2 is not in sorted order
      Arjun
      Aisha
Sophia
comm: file 1 is not in sorted order
Liam

comm: file 2 is not in sorted order
comm: file 1 is not in sorted order

      Aarav
Emilly
Jacob
      Priya
comm: file 2 is not in sorted order

      Aarav
Emilly
Jacob
```

```
      Priya
      Arjun
      Aisha
Sophia
Liam

+Aarav
Emilly
Jacob
+Priya
comm: file 2 is not in sorted order
+Arjun
+Aisha
Sophia
comm: file 1 is not in sorted order
Liam
ownership of 'file1.txt' retained as student
[sudo] password for student:
group of 'file1.txt' retained as student
Files file1.txt and file2.txt differ

1,4c1,4
< Emilly
< Jacob
< Sophia
< Liam
---
> Aarav
> Priya
> Arjun
> Aisha

*** file1.txt  2024-04-03 15:11:43.891235495 +0530
--- file2.txt  2024-04-03 15:12:00.971772087 +0530
*****
*** 1,4 ****
! Emilly
! Jacob
! Sophia
! Liam
--- 1,4 ----
! Aarav
! Priya
! Arjun
! Aisha
```

```

--- file1.txt 2024-04-03 15:11:43.891235495 +0530
+++ file2.txt 2024-04-03 15:12:00.971772087 +0530
@@ -1,4 +1,4 @@
-Emily
-Jacob
-Sophia
-Liam
+Aarav
+Priya
+Arjun
+Aisha

1,4c
Aarav
Priya
Arjun
Aisha
.

d1 4
a4 4
Aarav
Priya
Arjun
Aisha

Emily                                | Aarav
Jacob                                | Priya
Sophia                              | Arjun
Liam                                | Aisha

1,4c1,4
< Emily
< Jacob
< Sophia
< Liam
---
> Aarav
> Priya
> Arjun
> Aisha
Login: student                      Name:
Directory: /home/student           Shell: /bin/bash
On since Wed Apr 3 15:04 (IST) on :0 from :0 (messages off)

```

```

No mail.
No Plan.

Login      Name      Tty      Idle      Login Time      Office      Office Phone
student    *:*0                      Apr 3 15:04 (:0)

Login: student                      Name:
Directory: /home/student           Shell: /bin/bash
On since Wed Apr 3 15:04 (IST) on :0 from :0 (messages off)
No mail.

Login: student                      Name:
Directory: /home/student           Shell: /bin/bash
On since Wed Apr 3 15:04 (IST) on :0 from :0 (messages off)
No mail.
No Plan.

Login: student                      Name:
Directory: /home/student           Shell: /bin/bash
On since Wed Apr 3 15:04 (IST) on :0 from :0 (messages off)
No mail.
No Plan.

./unix.sh: line 70: tnftp: command not found
./unix.sh: line 71: tnftp: command not found
./unix.sh: line 72: tnftp: command not found
./unix.sh: line 73: tnftp: command not found
./unix.sh: line 74: tnftp: command not found
./unix.sh: line 75: tnftp: command not found
./unix.sh: line 76: tnftp: command not found
./unix.sh: line 77: tnftp: command not found
./unix.sh: line 78: tnftp: command not found
Emily
Jacob
Sophia
Liam
total 708K
28580390 -rwxrwxr-x 1 student student 1.7K Apr 3 15:14 unix.sh
28354249 -r----- 1 student student 686K Apr 3 15:09 'output_screenshots (2).pdf'
28580389 lrwxrwxrwx 1 student student 9 Apr 3 15:15 file3.txt -> file1.txt
28580388 -rw-rw-r-- 1 student student 28 Apr 3 15:12 file2.txt
28580386 -rw-rw-r-- 1 student student 28 Apr 3 15:11 file1.txt
28573780 drwxrwxr-x 7 student student 4.0K Apr 3 15:05 ..
28580116 drwxrwxr-x 2 student student 4.0K Apr 3 15:15 .
ln: failed to create hard link '/home/student/422108/assignment_6/file2.txt': File exists
lpstat: Error - expected username after "-U" option.

```

```

Usage: lpstat [options]
Options:
  -E                        Encrypt the connection to the server
  -h server[:port]         Connect to the named server and port
  -t                        Show verbose (long) output
  -U username              Specify the username to use for authentication
  -H                        Show the default server and port
  -W completed             Show completed jobs
  -W not-completed         Show pending jobs
  -a [destination(s)]      Show the accepting state of destinations
  -c [class(es)]           Show classes and their member printers
  -d                        Show the default destination
  -e                        Show available destinations on the network
  -o [destination(s)]      Show jobs
  -p [printer(s)]          Show the processing state of destinations
  -r                        Show whether the CUPS server is running
  -R                        Show the ranking of jobs
  -s                        Show a status summary
  -t                        Show all status information
  -u [user(s)]             Show jobs queued by the current or specified users
  -v [printer(s)]          Show the devices for each destination
device for Brother_DCP_B7535DW_series: implicitclass://Brother_DCP_B7535DW_series/
device for Brother_DCP_B7535DW_series@BRNB422001E76C5.local: implicitclass://Brother_DCP_B7535DW_series%40BRNB422001E76C5.local/
device for Canon_IR2006_2206: implicitclass://Canon_IR2006_2206/
device for Canon_IR2006_2206_1: implicitclass://Canon_IR2006_2206_1/
device for Canon_IR2006_2206_1@Canon740b8d.local: implicitclass://Canon_IR2006_2206_1_%40Canon740b8d.local/
device for Canon_IR2006_2206_2: implicitclass://Canon_IR2006_2206_2/
device for Canon_IR2006_2206_3: implicitclass://Canon_IR2006_2206_3/
device for Canon_MF240: implicitclass://Canon_MF240/
device for Canon_MF260: implicitclass://Canon_MF260/
device for Canon_MF260_2: implicitclass://Canon_MF260_2/
device for HP_LaserJet_Pro_M329_8ED0C2: implicitclass://HP_LaserJet_Pro_M329_8ED0C2_/
device for HP_LaserJet_Pro_M329_DF1BED: implicitclass://HP_LaserJet_Pro_M329_DF1BED_/
device for jkmurthy_sos: implicitclass://jkmurthy_sos/
device for jkmurthy_sos@HPE80801DF1BC5.local: implicitclass://jkmurthy_sos%40HPE80801DF1BC5.local/
no system default destination
device for Brother_DCP_B7535DW_series: implicitclass://Brother_DCP_B7535DW_series/
device for Brother_DCP_B7535DW_series@BRNB422001E76C5.local: implicitclass://Brother_DCP_B7535DW_series%40BRNB422001E76C5.local/
device for Canon_IR2006_2206: implicitclass://Canon_IR2006_2206/
device for Canon_IR2006_2206_1: implicitclass://Canon_IR2006_2206_1/
device for Canon_IR2006_2206_1@Canon740b8d.local: implicitclass://Canon_IR2006_2206_1_%40Canon740b8d.local/
device for Canon_IR2006_2206_2: implicitclass://Canon_IR2006_2206_2/
device for Canon_IR2006_2206_3: implicitclass://Canon_IR2006_2206_3/
device for Canon_MF240: implicitclass://Canon_MF240/
device for Canon_MF260: implicitclass://Canon_MF260/

```

```

device for Canon_MF260_2: implicitclass://Canon_MF260_2/
device for HP_LaserJet_Pro_M329_BED0C2: implicitclass://HP_LaserJet_Pro_M329_BED0C2_/
device for HP_LaserJet_Pro_M329_DF1BED: implicitclass://HP_LaserJet_Pro_M329_DF1BED_/
device for jkmurthy_sos: implicitclass://jkmurthy_sos/
device for jkmurthy_sos@HPE808D1DF1BC5.local: implicitclass://jkmurthy_sos%40HPE808D1DF1BC5.local/
Brother_DCP_B7535DW_series accepting requests since Monday 11 September 2023 04:04:21 PM
B Text Editor 'B7535DW_series@BRNB422001E76C5.local accepting requests since Wednesday 03 April 2024 03:03:54 PM
Canon_IR2006_2206 accepting requests since Monday 11 September 2023 04:04:56 PM
Canon_IR2006_2206_1 accepting requests since Monday 11 September 2023 04:03:54 PM
Canon_IR2006_2206_1_@Canon740b8d.local accepting requests since Tuesday 19 March 2024 02:19:10 PM
Canon_IR2006_2206_2 accepting requests since Monday 11 September 2023 04:11:43 PM
Canon_IR2006_2206_3 accepting requests since Monday 09 October 2023 02:20:30 PM
Canon_MF240 accepting requests since Tuesday 27 July 2021 08:24:40 AM
Canon_MF260 accepting requests since Friday 27 August 2021 10:12:08 AM
Canon_MF260_2 accepting requests since Friday 27 August 2021 10:12:08 AM
HP_LaserJet_Pro_M329_BED0C2 accepting requests since Tuesday 27 July 2021 08:44:53 AM
HP_LaserJet_Pro_M329_DF1BED accepting requests since Tuesday 14 September 2021 12:01:18 AM
jkmurthy_sos accepting requests since Monday 11 September 2023 04:04:18 PM
jkmurthy_sos@HPE808D1DF1BC5.local accepting requests since Tuesday 19 March 2024 02:44:42 PM
Brother_DCP_B7535DW_series
Brother_DCP_B7535DW_series@BRNB422001E76C5.local
Canon_IR2006_2206
Canon_IR2006_2206_1
Canon_IR2006_2206_1_@Canon740b8d.local
Canon_IR2006_2206_2
Canon_IR2006_2206_3
Canon_MF240
Canon_MF260
Canon_MF260_2
HP_LaserJet_Pro_M329_BED0C2
HP_LaserJet_Pro_M329_DF1BED
jkmurthy_sos
jkmurthy_sos@HPE808D1DF1BC5.local
printer Brother_DCP_B7535DW_series is idle. enabled since Monday 11 September 2023 04:04:21 PM
printer Brother_DCP_B7535DW_series@BRNB422001E76C5.local is idle. enabled since Wednesday 03 April 2024 03:03:54 PM
printer Canon_IR2006_2206 is idle. enabled since Monday 11 September 2023 04:04:56 PM
printer Canon_IR2006_2206_1 is idle. enabled since Monday 11 September 2023 04:03:54 PM
printer Canon_IR2006_2206_1_@Canon740b8d.local is idle. enabled since Tuesday 19 March 2024 02:19:10 PM
printer Canon_IR2006_2206_2 is idle. enabled since Monday 11 September 2023 04:11:43 PM
printer Canon_IR2006_2206_3 is idle. enabled since Monday 09 October 2023 02:20:30 PM
printer Canon_MF240 is idle. enabled since Tuesday 27 July 2021 08:24:40 AM
printer Canon_MF260 is idle. enabled since Friday 27 August 2021 10:12:08 AM
printer Canon_MF260_2 is idle. enabled since Friday 27 August 2021 10:12:08 AM
printer HP_LaserJet_Pro_M329_BED0C2 is idle. enabled since Tuesday 27 July 2021 08:44:53 AM
printer HP_LaserJet_Pro_M329_DF1BED is idle. enabled since Tuesday 14 September 2021 12:01:18 AM

```

```

printer Canon_MF260_2 is idle. enabled since Friday 27 August 2021 10:12:08 AM
printer HP_LaserJet_Pro_M329_BED0C2 is idle. enabled since Tuesday 27 July 2021 08:44:53 AM
printer HP_LaserJet_Pro_M329_DF1BED is idle. enabled since Tuesday 14 September 2021 12:01:18 AM
printer jkmurthy_sos is idle. enabled since Monday 11 September 2023 04:04:18 PM
printer jkmurthy_sos@HPE808D1DF1BC5.local is idle. enabled since Tuesday 19 March 2024 02:44:42 PM
is n

```

```

msg from util-linux 2.34

```

```

Usage:

```

```

msg [options] [y | n]

```

```

Control write access of other users to your terminal.

```

```

Options:

```

```

-v, --verbose explain what is being done
-h, --help display this help
-V, --version display version

```

```

For more details see msg(1).

```

```

student@ai-hp-prodesk-601-g4-nt:~/422108/assignment_6$

```