UNIX-LAB

WEEK-06

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SECTION:A

ROLLNO:422139

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_6$ ./unix.sh
bash: ./unix.sh: Permission denied
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_6$ chmod +x unix.sh
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_6$ ./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
10
5
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.

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 3 of the License , or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    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

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

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

        Aarav
Emily
Jacob
        Priya
        Arjun
        Aisha
Sophia
Liam

+Aarav
Emily
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
< Emily
< 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 ****
! Emily
! 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
-l                              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@HPE8D8D1DF1BC5.local: implicitclass://jkmurthy_sos%40HPE8D8D1DF1BC5.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_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@HPE8D1DF1BC5.local: implicitclass://jkmurthy_sos%40HPE8D1DF1BC5.local/
Brother_DCP_B7535DW_series accepting requests since Monday 11 September 2023 04:04:21 PM
[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_8ED0C2_ 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@HPE8D1DF1BC5.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_8ED0C2_
HP_LaserJet_Pro_M329_DF1BED_
jkmurthy_sos
jkmurthy_sos@HPE8D1DF1BC5.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_8ED0C2_ 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_8ED0C2_ 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@HPE8D1DF1BC5.local is idle.  enabled since Tuesday 19 March 2024 02:44:42 PM
is n
mesg from util-linux 2.34

Usage:
 mesg [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 mesg(1).
student@ai-hp-prodesk-601-g4-mt:~/422108/assignment_6$
```