

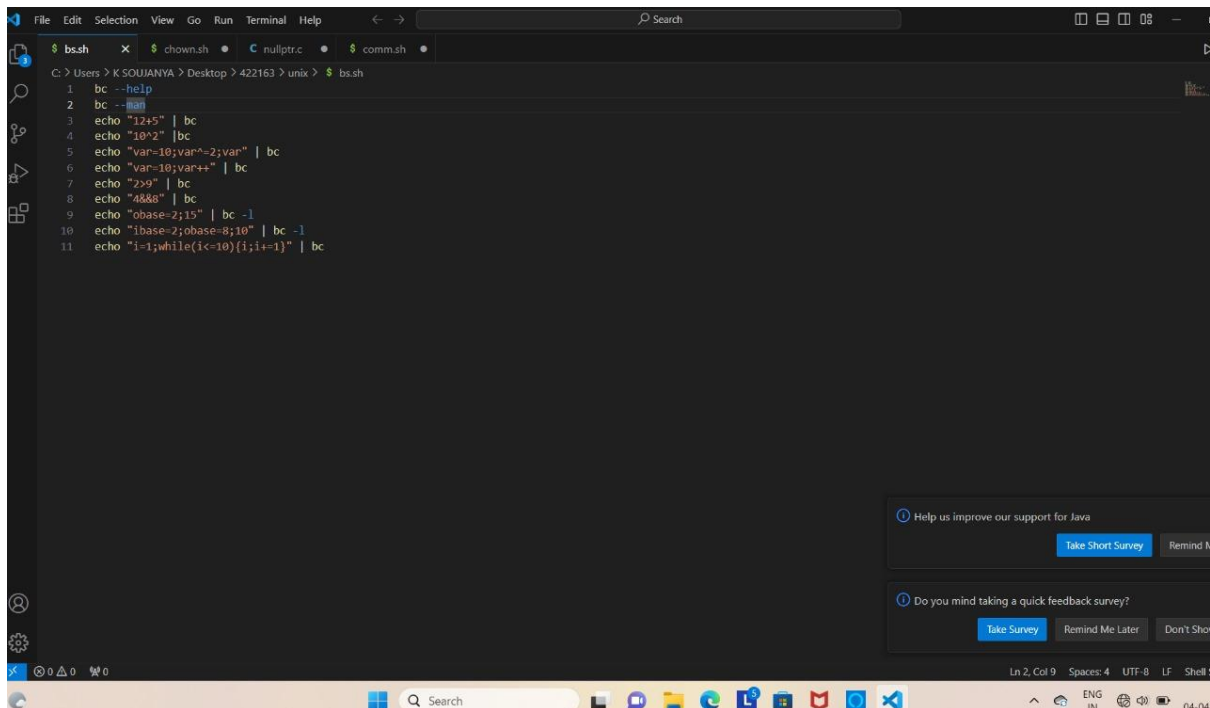
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Roll No:422163

Section:CSE-A

Write shell script for
commands:bc,comm,chown,chgrp,cron,dd
command

bc command

A screenshot of a Windows terminal window with a dark theme. The terminal shows a shell script for the 'bc' command. The script is numbered 1 through 11. It includes help text, a man page reference, and several echo commands demonstrating the use of 'bc' for arithmetic operations like addition, multiplication, division, and exponentiation. It also shows how to set variables, change bases (obase, ibase), and use loops. The terminal window has a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and a search bar. The taskbar at the bottom shows various application icons and the system clock indicating 04:04.

```
1 bc --help
2 bc --man
3 echo "12+5" | bc
4 echo "10^2" | bc
5 echo "var=10;var^=2;var" | bc
6 echo "var=10;var++" | bc
7 echo "2>9" | bc
8 echo "4&&8" | bc
9 echo "obase=2;15" | bc -l
10 echo "ibase=2;obase=8;10" | bc -l
11 echo "i=1;while(i<=10){i++;}" | bc
```

10

Output: 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

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

17

100

100

10

0

1

1111

2

1

2

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6

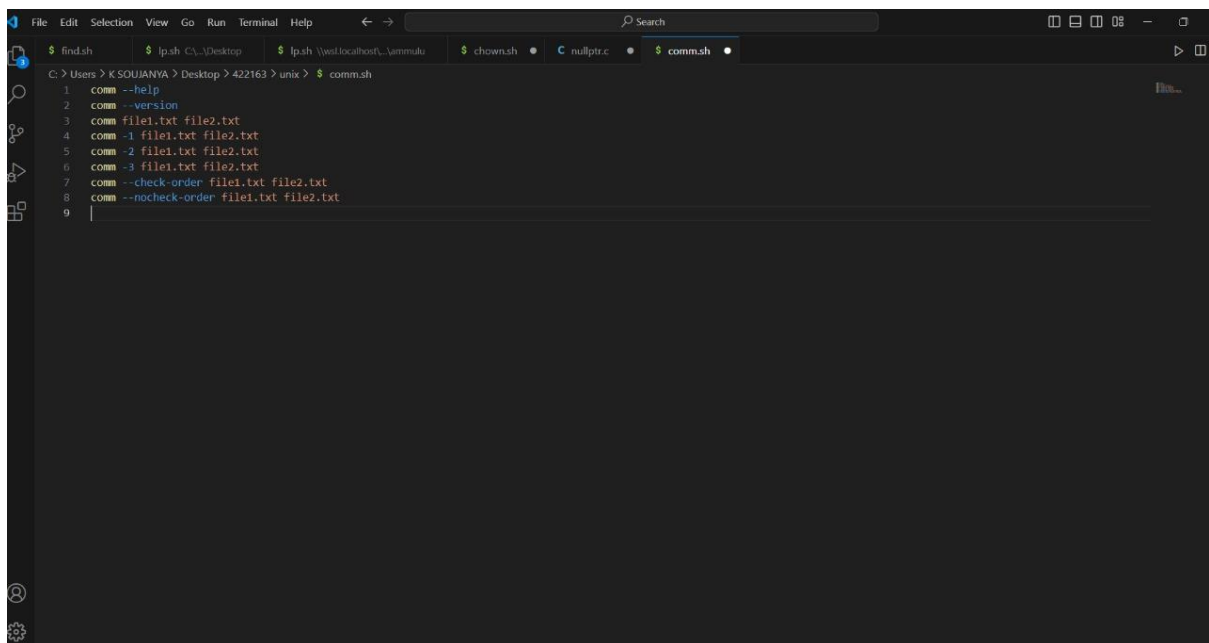
7

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10

Comm command



```
C:\Users\K.SOUJANYA\Desktop> 422163> unix> $ comm.sh
1 comm --help
2 comm --version
3 comm file1.txt file2.txt
4 comm -1 file1.txt file2.txt
5 comm -2 file1.txt file2.txt
6 comm -3 file1.txt file2.txt
7 comm --check-order file1.txt file2.txt
8 comm --nocheck-order file1.txt file2.txt
9 |
```

Output:

Usage: comm [OPTION]... FILE1 FILE2

Compare sorted files FILE1 and FILE2 line by line.

When FILE1 or FILE2 (not both) is -, read standard input.

With no options, produce three-column output. Column one contains lines unique to FILE1, column two contains lines unique to FILE2, and column three contains lines common to both files.

-1 suppress column 1 (lines unique to FILE1)

-2 suppress column 2 (lines unique to FILE2)

-3 suppress column 3 (lines that appear in both files)

--check-order check that the input is correctly sorted, even

if all input lines are pairable

--nocheck-order do not check that the input is correctly sorted

--output-delimiter=STR separate columns with STR

--total output a summary

-z, --zero-terminated line delimiter is NUL, not newline

--help display this help and exit

--version output version information and exit

Note, comparisons honor the rules specified by 'LC_COLLATE'.

Examples:

comm -12 file1 file2 Print only lines present in both file1 and file2.

`comm -3 file1 file2` Print lines in file1 not in file2, and vice versa.

GNU coreutils online help:

<<https://www.gnu.org/software/coreutils/>>

Report any translation bugs to

<<https://translationproject.org/team/>>

Full documentation

<<https://www.gnu.org/software/coreutils/comm>>

or available locally via: `info '(coreutils) comm invocation'`

apaar

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pranjal thakral

apaar

ayush rajput

deepak

hemant

lucky

pranjal Thakral

chown command

```
ammu@LAPTOP-I4949DCG:~$ cat chown.sh
chown --help
chown --version
ls -l al.txt
sudo chown -c ammu al.txt
ls -l al.txt
sudo chown -f ammu al.txt
ls -l al.txt
chown ammu:ammu al.txt
ls -l al.txt
sudo chown --from=:ammu ammu al.txt
ls -l al.txt
sudo chown -v --reference=al.txt a.txt
ammu@LAPTOP-I4949DCG:~$
```

Output:

Usage: chown [OPTION]...
[OWNER][:[GROUP]] FILE...

or: chown [OPTION]... --reference=RFILE
FILE...

Change the owner and/or group of each FILE
to OWNER and/or GROUP.

With --reference, change the owner and
group of each FILE to those of RFILE.

-c, --changes like verbose but report
only when a change is made

-f, --silent, --quiet suppress most error
messages

-v, --verbose output a diagnostic for
every file processed

--dereference affect the referent of
each symbolic link (this is
the default), rather than the
symbolic link itself

-h, --no-dereference affect symbolic links instead of any referenced file

(useful only on systems that can change the ownership of a symlink)

--
from=CURRENT_OWNER:CURRENT_GROUP
change the owner and/or group of each file only if

its current owner and/or group match those specified

here. Either may be omitted, in which case a match

is not required for the omitted attribute

--no-preserve-root do not treat '/' specially (the default)

--preserve-root fail to operate recursively on '/'

--reference=RFILE use RFILE's owner and group rather than

specifying OWNER:GROUP values

-R, --recursive operate on files and directories recursively

The following options modify how a hierarchy is traversed when the -R

option is also specified. If more than one is specified, only the final one takes effect.

-H if a command line argument is a symbolic link

to a directory, traverse it

-L traverse every symbolic link to a directory

encountered

-P do not traverse any symbolic links (default)

--help display this help and exit

--version output version information and exit

Owner is unchanged if missing. Group is unchanged if missing, but changed to login group if implied by a ':' following a symbolic OWNER.

OWNER and GROUP may be numeric as well as symbolic.

Examples:

chown root /u Change the owner of /u to "root".

chown root:staff /u Likewise, but also change its group to "staff".

`chown -hR root /u` Change the owner of `/u` and subfiles to "root".

GNU coreutils online help:

[<https://www.gnu.org/software/coreutils/>](https://www.gnu.org/software/coreutils/)

Report any translation bugs to

[<https://translationproject.org/team/>](https://translationproject.org/team/)

Full documentation

[<https://www.gnu.org/software/coreutils/chown>](https://www.gnu.org/software/coreutils/chown)

or available locally via: `info '(coreutils) chown invocation'`

chown (GNU coreutils) 8.32

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There is NO WARRANTY, to the extent permitted by law.

Written by David MacKenzie and Jim Meyering.

```
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36  
al.txt
```

```
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36  
al.txt
```

```
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36  
al.txt
```

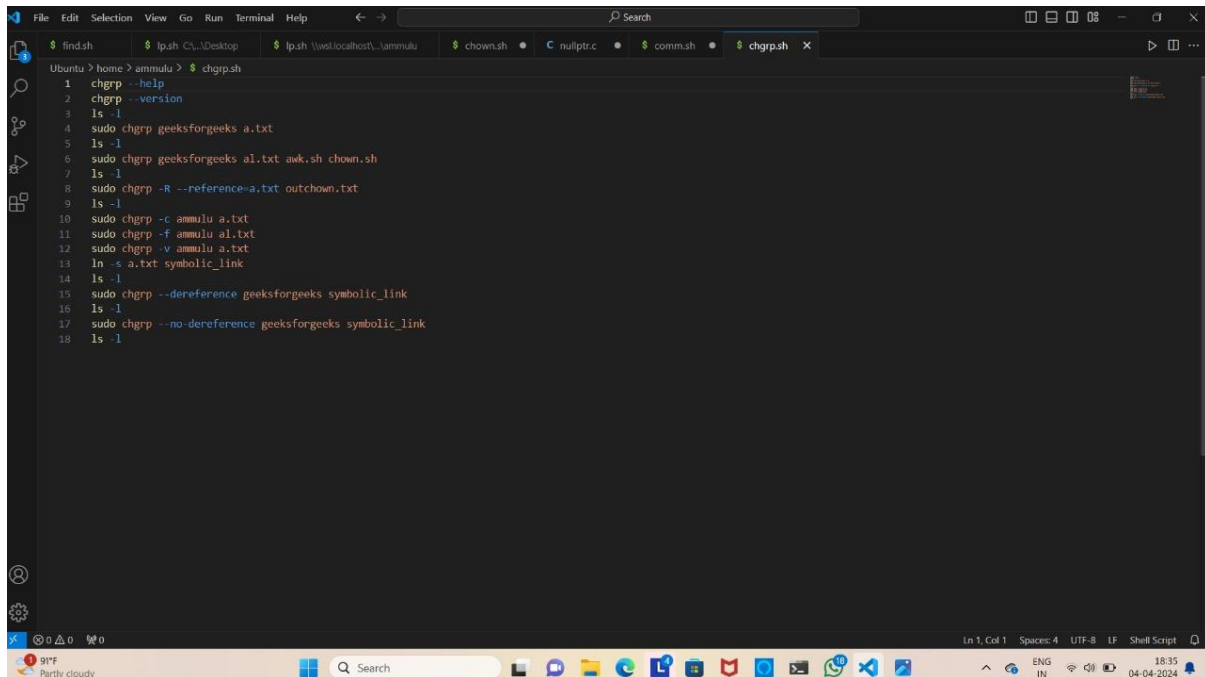
```
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36  
al.txt
```

```
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36  
al.txt
```

ownership of 'a.txt' retained as
ammulu:ammulu

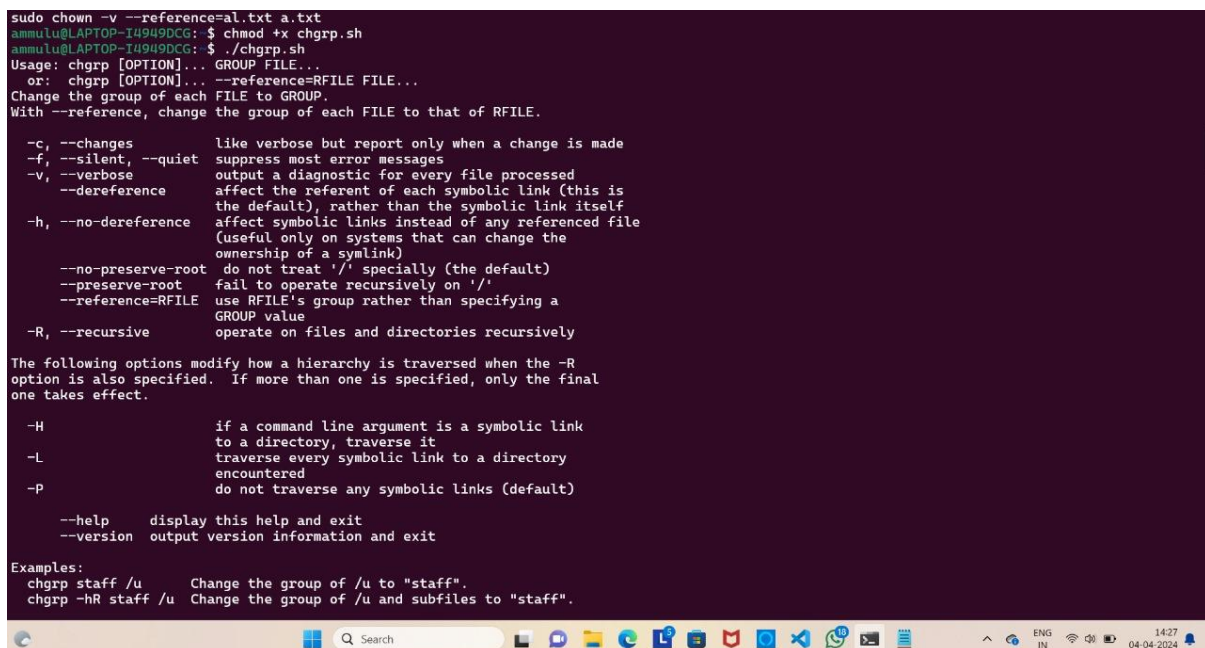
```
-rw-r--r-- 1 ammulu ammulu 354 Mar  4 20:43  
a.txt
```

Chgrp command



```
1 chgrp --help
2 chgrp --version
3 ls -l
4 sudo chgrp geeksforgeeks a.txt
5 ls -l
6 sudo chgrp geeksforgeeks a1.txt awk.sh chown.sh
7 ls -l
8 sudo chgrp -R --reference=a.txt outchown.txt
9 ls -l
10 sudo chgrp -c ammulu a.txt
11 sudo chgrp -f ammulu a1.txt
12 sudo chgrp -v ammulu a.txt
13 ln -s a.txt symbolic_link
14 ls -l
15 sudo chgrp --dereference geeksforgeeks symbolic_link
16 ls -l
17 sudo chgrp --no-dereference geeksforgeeks symbolic_link
18 ls -l
```

Output:



```
sudo chown -v --reference=a1.txt a.txt
ammulu@LAPTOP-I4949DCG: $ chmod +x chgrp.sh
ammulu@LAPTOP-I4949DCG: $ ./chgrp.sh
Usage: chgrp [OPTION]... GROUP FILE...
       or: chgrp [OPTION]... --reference=RFILE FILE...
Change the group of each FILE to GROUP.
With --reference, change the group of each FILE to that of RFILE.

-c, --changes           like verbose but report only when a change is made
-f, --silent, --quiet  suppress most error messages
-v, --verbose           output a diagnostic for every file processed
--dereference          affect the referent of each symbolic link (this is
                        the default), rather than the symbolic link itself
-h, --no-dereference   affect symbolic links instead of any referenced file
                        (useful only on systems that can change the
                        ownership of a symlink)
--no-preserve-root     do not treat '/' specially (the default)
--preserve-root        fail to operate recursively on '/'
--reference=RFILE      use RFILE's group rather than specifying a
                        GROUP value
-R, --recursive        operate on files and directories recursively

The following options modify how a hierarchy is traversed when the -R
option is also specified.  If more than one is specified, only the final
one takes effect.

-H                     if a command line argument is a symbolic link
                        to a directory, traverse it
-L                     traverse every symbolic link to a directory
                        encountered
-P                     do not traverse any symbolic links (default)

--help                display this help and exit
--version              output version information and exit

Examples:
chgrp staff /u         Change the group of /u to "staff".
chgrp -hR staff /u     Change the group of /u and subfiles to "staff".
```



```

drwxr-xr-x 4 ammulu ammulu 4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu 0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu ammulu 354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 hdadisk.img
-rw-r--r-- 1 ammulu ammulu 95 Apr 1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu ammulu 354 Mar 4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu 16976 Apr 1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu 148 Apr 1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu 411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu 7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu 124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu 3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu 11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu 9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu 180 Apr 1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks 5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu 4096 Mar 31 21:04 unix
drwxr-xr-x 4 ammulu ammulu 4096 Apr 1 23:55 unix_assignments
-rw-r--r-- 1 ammulu ammulu 0 Mar 31 21:02 v.txt
total 308
-rw-r--r-- 1 ammulu ammulu 111 Mar 31 23:45 :q
-rwxr-xr-x 1 ammulu ammulu 16976 Apr 1 01:32 a.out
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 a.txt
-rwxr-xr-x 1 ammulu ammulu 13 Mar 31 15:04 abc.sh
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
drwxr-xr-x 3 ammulu ammulu 4096 Apr 1 21:19 assignment
-rw-r--r-- 1 ammulu ammulu 0 Mar 31 15:04 at.txt
-rw-r--r-- 1 ammulu ammulu 2713 Mar 31 23:15 avl.c
-rwxr-xr-x 1 ammulu geeksforgeeks 49 Mar 4 20:38 awk.sh
-rwxr-xr-x 1 ammulu ammulu 411 Mar 30 22:25 chgrp.sh
-rwxr-xr-x 1 ammulu geeksforgeeks 267 Mar 30 21:59 chown.sh
-rwxr-xr-x 1 ammulu ammulu 411 Mar 30 22:20 chgrp.sh
-rwxr-xr-x 1 ammulu geeksforgeeks 267 Mar 30 21:59 chown.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 co.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 d.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 30 23:03 dd.sh
-rwxr--r-- 1 ammulu ammulu 250 Mar 31 15:30 diff.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 ed.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:04 f.txt
-rwxr--r-- 1 ammulu ammulu 135 Mar 31 16:08 find.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 15:31 finger.sh
-rw-r--r-- 1 ammulu ammulu 58 Apr 3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu 17008 Apr 1 01:14 gh
drwxr-xr-x 6 ammulu ammulu 4096 Apr 3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu 4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu 0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 hdadisk.img
-rw-r--r-- 1 ammulu ammulu 95 Apr 1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu 16976 Apr 1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu 148 Apr 1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu 411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu 7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu 124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu 3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu 11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu 9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu 180 Apr 1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks 5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu 4096 Mar 31 21:04 unix
drwxr-xr-x 4 ammulu ammulu 4096 Apr 1 23:55 unix_assignments

```

```

-L          to a directory, traverse it
            traverse every symbolic link to a directory
            encountered
-P          do not traverse any symbolic links (default)

--help      display this help and exit
--version   output version information and exit

```

Owner is unchanged if missing. Group is unchanged if missing, but changed to login group if implied by a ':' following a symbolic OWNER. OWNER and GROUP may be numeric as well as symbolic.

Examples:

```

chown root /u      Change the owner of /u to "root".
chown root:staff /u Likewise, but also change its group to "staff".
chown -hR root /u  Change the owner of /u and subfiles to "root".

```

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>
 Report any translation bugs to <<https://translationproject.org/team/>>
 Full documentation <<https://www.gnu.org/software/coreutils/chown>>
 or available locally via: info '(coreutils) chown invocation'
 chown (GNU coreutils) 8.32
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 There is NO WARRANTY, to the extent permitted by law.

Written by David MacKenzie and Jim Meyering.

```

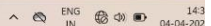
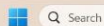
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
[sudo] password for ammulu:
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
-rwxr-xr-x 1 ammulu ammulu 92 Mar 30 18:36 al.txt
changed ownership of 'a.txt' from ammulu:geeksforgeeks to ammulu:ammulu
-rw-r--r-- 4 ammulu ammulu 354 Mar  4 20:43 a.txt
ammulu@APT0P-T4949DCG:~$ cat chown.sh

```

```

-rw-r--r-- 1 ammulu ammulu      58 Apr  3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu    17088 Apr  1 01:14 gh
drwxr-xr-x 6 ammulu ammulu    4096 Apr  3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu    4096 Apr  2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu       0 Apr  3 15:17 gui.c
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar  4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu    411 Mar 30 23:07 hdadisk.img
-rw-r--r-- 1 ammulu ammulu     95 Apr  1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar  4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu     234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu   16976 Apr  1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu    148 Apr  1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu    411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu    7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu  124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu    3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu    411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu     11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu     9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu    180 Apr  1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks 5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu    411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu    4096 Mar 31 21:04 unix
drwxr-xr-x 4 ammulu ammulu    4096 Apr  1 23:55 unix_assignments
-rw-r--r-- 1 ammulu ammulu       0 Mar 31 21:02 v.txt
changed group of 'a.txt' from geeksforgeeks to ammulu
group of 'a.txt' retained as ammulu
ln: failed to create symbolic link 'symbolic_link': File exists
total 308
-rw-r--r-- 1 ammulu ammulu    111 Mar 31 23:45 :q
-rwxr-xr-x 1 ammulu ammulu   16976 Apr  1 01:32 a.out
-rw-r--r-- 4 ammulu ammulu    354 Mar  4 20:43 a.txt
-rwxr-xr-x 1 ammulu ammulu    13 Mar 31 15:04 abc.sh
-rwxr-xr-x 1 ammulu ammulu     92 Mar 30 18:36 al.txt

```



```
-rwxr-xr-x 1 ammulu ammulu      13 Mar 31 15:04 abc.sh
-rwxr-xr-x 1 ammulu ammulu      92 Mar 30 18:36 al.txt
drwxr-xr-x 3 ammulu ammulu    4096 Apr 1 21:19 assignment
-rw-r--r-- 1 ammulu ammulu       0 Mar 31 15:04 at.txt
-rw-r--r-- 1 ammulu ammulu    2713 Mar 31 23:15 avl.c
-rwxr-xr-x 1 ammulu geeksforgeeks  49 Mar 4 20:38 awk.sh
-rwxr-xr-x 1 ammulu ammulu     411 Mar 30 22:25 chgrp.sh
-rwxr-xr-x 1 ammulu geeksforgeeks 267 Mar 30 21:59 chown.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:02 co.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:06 d.txt
-rwxr-xr-x 1 ammulu ammulu     234 Mar 30 23:03 dd.sh
-rwxr--r-- 1 ammulu ammulu     250 Mar 31 15:30 diff.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:05 ed.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:04 f.txt
-rwxr--r-- 1 ammulu ammulu     135 Mar 31 16:08 find.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 15:31 finger.sh
-rw-r--r-- 1 ammulu ammulu       58 Apr 3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu   17008 Apr 1 01:14 gh
drwxr-xr-x 6 ammulu ammulu    4096 Apr 3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu    4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu       0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu ammulu     354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu     411 Mar 30 23:07 hddisk.img
-rw-r--r-- 1 ammulu ammulu     95 Apr 1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu ammulu     354 Mar 4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu     234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu   16976 Apr 1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu     148 Apr 1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu     411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu     7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu   124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu     3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu     411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu      11 Mar 31 21:05 softlink -> outfind.txt
```

```
96°F Sunny
Search

-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu      11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu       9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu    180 Apr 1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks  5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu     411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu    4096 Mar 31 21:04 unix
drwxr-xr-x 4 ammulu ammulu    4096 Apr 1 23:55 unix_assignments
-rw-r--r-- 1 ammulu ammulu       0 Mar 31 21:02 v.txt
total 308
-rw-r--r-- 1 ammulu ammulu     111 Mar 31 23:45 :q
-rwxr-xr-x 1 ammulu ammulu   16976 Apr 1 01:32 a.out
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 a.txt
-rwxr-xr-x 1 ammulu ammulu     13 Mar 31 15:04 abc.sh
-rwxr-xr-x 1 ammulu ammulu     92 Mar 30 18:36 al.txt
drwxr-xr-x 3 ammulu ammulu    4096 Apr 1 21:19 assignment
-rw-r--r-- 1 ammulu ammulu       0 Mar 31 15:04 at.txt
-rw-r--r-- 1 ammulu ammulu    2713 Mar 31 23:15 avl.c
-rwxr-xr-x 1 ammulu geeksforgeeks  49 Mar 4 20:38 awk.sh
-rwxr-xr-x 1 ammulu ammulu     411 Mar 30 22:25 chgrp.sh
-rwxr-xr-x 1 ammulu geeksforgeeks 267 Mar 30 21:59 chown.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:02 co.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:06 d.txt
-rwxr-xr-x 1 ammulu ammulu     234 Mar 30 23:03 dd.sh
-rwxr--r-- 1 ammulu ammulu     250 Mar 31 15:30 diff.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:05 ed.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:04 f.txt
-rwxr--r-- 1 ammulu ammulu     135 Mar 31 16:08 find.sh
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 15:31 finger.sh
-rw-r--r-- 1 ammulu ammulu       58 Apr 3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu   17008 Apr 1 01:14 gh
drwxr-xr-x 6 ammulu ammulu    4096 Apr 3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu    4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu       0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu       0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu     411 Mar 30 23:07 hddisk.img
-rw-r--r-- 1 ammulu ammulu     95 Apr 1 01:03 heelo.c
```

96°F
Very high UV

Search


```
-rw-r--r-- 1 ammulu ammulu 250 Mar 31 15:30 diff.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 ed.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:04 f.txt
-rwxr-xr-x 1 ammulu ammulu 135 Mar 31 16:08 find.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 15:31 finger.sh
-rw-r--r-- 1 ammulu ammulu 58 Apr 3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu 17008 Apr 1 01:14 gh
drwxr-xr-x 6 ammulu ammulu 4096 Apr 3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu 4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu 0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 hdadisk.img
-rw-r--r-- 1 ammulu ammulu 95 Apr 1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu 16976 Apr 1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu 148 Apr 1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu 411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu 7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu 124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu 3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu 11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu 9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu 180 Apr 1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks 5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu 4096 Mar 31 21:04 unix
drwxr-xr-x 4 ammulu ammulu 4096 Apr 1 23:55 unix_assignments
-rw-r--r-- 1 ammulu ammulu 0 Mar 31 21:02 v.txt
ammulu@LAPTOP-I4949DCG: $
```

```
-rw-r--r-- 1 ammulu geeksforgeeks 49 Mar 4 20:38 awk.sh
-rwxr-xr-x 1 ammulu ammulu 411 Mar 30 22:25 chgrp.sh
-rwxr-xr-x 1 ammulu geeksforgeeks 267 Mar 30 21:59 chown.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 co.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 d.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 30 23:03 dd.sh
-rwxr--r-- 1 ammulu ammulu 250 Mar 31 15:30 diff.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 ed.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:04 f.txt
-rwxr--r-- 1 ammulu ammulu 135 Mar 31 16:08 find.sh
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 15:31 finger.sh
-rw-r--r-- 1 ammulu ammulu 58 Apr 3 15:33 ftp.sh
-rwxr-xr-x 1 ammulu ammulu 17008 Apr 1 01:14 gh
drwxr-xr-x 6 ammulu ammulu 4096 Apr 3 14:29 git_repo
drwxr-xr-x 4 ammulu ammulu 4096 Apr 2 23:05 gitrepo
-rw-r--r-- 1 ammulu ammulu 0 Apr 3 15:17 gui.c
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 gy.txt
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:02 h.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 hdadisk.img
-rw-r--r-- 1 ammulu ammulu 95 Apr 1 01:03 heelo.c
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:05 jk.txt
-rw-r--r-- 4 ammulu geeksforgeeks 354 Mar 4 20:43 k.txt
-rwxr-xr-x 1 ammulu ammulu 234 Mar 31 21:01 ln.sh
-rwxr-xr-x 1 ammulu ammulu 16976 Apr 1 01:19 nullptr
-rw-r--r-- 1 ammulu ammulu 148 Apr 1 01:18 nullptr.c
-rw-r--r-- 2 ammulu ammulu 411 Mar 30 23:07 outch.txt
-rw-r--r-- 1 ammulu geeksforgeeks 3350 Mar 30 22:01 outchown.txt
-rw-r--r-- 1 ammulu ammulu 7636 Mar 30 23:06 outdd.txt
-rw-r--r-- 1 ammulu ammulu 124957 Mar 31 15:30 outdiff.txt
-rw-r--r-- 1 ammulu ammulu 3309 Mar 31 16:09 outfind.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 partition.img
-rw-r--r-- 2 ammulu ammulu 0 Mar 31 21:06 rw.txt
lrwxrwxrwx 1 ammulu ammulu 11 Mar 31 21:05 softlink -> outfind.txt
lrwxrwxrwx 1 ammulu ammulu 9 Mar 31 20:52 softlink.sh -> finger.sh
-rw-r--r-- 1 ammulu ammulu 180 Apr 1 01:11 stackoverflow.c
lrwxrwxrwx 1 ammulu geeksforgeeks 5 Mar 30 22:25 symbolic_link -> a.txt
-rw-r--r-- 1 ammulu ammulu 411 Mar 30 23:07 tgsservice.iso
drwxr-xr-x 2 ammulu ammulu 4096 Mar 31 21:04 unix
```

Cron command

```
Windows PowerShell
ammulu@LAPTOP-I4949DCG: $ cron --help
cron: invalid option -- '-'
usage: cron
ammulu@LAPTOP-I4949DCG: $ crontab --help
crontab: invalid option -- '-'
usage: crontab [-u user] file
crontab [-u user] [-i] [-e | -l | -r]
      (default operation is replace, per 1003.2)
      -e      (edit user's crontab)
      -l      (list user's crontab)
      -r      (delete user's crontab)
      -i      (prompt before deleting user's crontab)
ammulu@LAPTOP-I4949DCG: $ cron --version
cron: invalid option -- '-'
usage: cron
ammulu@LAPTOP-I4949DCG: $ crontab --version
crontab: invalid option -- '-'
crontab: usage error: unrecognized option
usage: crontab [-u user] file
crontab [-u user] [-i] [-e | -l | -r]
      (default operation is replace, per 1003.2)
      -e      (edit user's crontab)
      -l      (list user's crontab)
      -r      (delete user's crontab)
      -i      (prompt before deleting user's crontab)
ammulu@LAPTOP-I4949DCG: $ man cron
ammulu@LAPTOP-I4949DCG: $ crontab -e
No modification made
ammulu@LAPTOP-I4949DCG: $ crontab -l

48 14 * * * abc.sh
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
```

```
Windows PowerShell
ammulu@LAPTOP-I4949DCG: $ man cron
System Manager's Manual
CRON(8)

NAME
    cron - daemon to execute scheduled commands (Vixie Cron)

SYNOPSIS
    cron [-f] [-L] [-L loglevel]

DESCRIPTION
    cron is started automatically from /etc/init.d on entering multi-user runlevels.

OPTIONS
    -f      Stay in foreground mode, don't daemonize.
    -P      Don't set PATH for child processes. Let it inherit instead.
    -l      Enable LSB compliant names for /etc/cron.d files. This setting, however, does not affect the parsing of files under /etc/cron.hourly,
            /etc/cron.daily, /etc/cron.weekly or /etc/cron.monthly.
    -n      Include the FQDN in the subject when sending mails. By default, cron will abbreviate the hostname.
    -L loglevel
            Tell cron what to log about jobs (errors are logged regardless of this value) as the sum of the following values:
                1      will log the start of all cron jobs
                2      will log the end of all cron jobs
                4      will log all failed jobs (exit status != 0)
                8      will log the process number of all cron jobs
            The default is to log the start of all jobs (1). Logging will be disabled if levels is set to zero (0). A value of fifteen (15) will
            select all options.

NOTES
    cron searches its spool area (/var/spool/cron/crontabs) for crontab files (which are named after accounts in /etc/passwd); crontabs found are
    loaded into memory. Note that crontabs in this directory should not be accessed directly - the crontab command should be used to access and up-
    date them.

Manual page cron(8) line 1 (press h for help or q to quit)
```

Windows PowerShell

ammulu@LAPTOP-1494SDG: touch at.txt

99°F Sunny

Search

ammulu

Network > wsl\$ > Ubuntu > home > ammulu

Search ammulu

Name	Date modified	Type	Size
.lesshst	31-03-2024 14:24	LESSHST File	1 KB
.motd.shown	31-03-2024 14:20	MOTD_SHOWN File	0 KB
.profile	04-03-2024 20:14	Profile Source File	1 KB
.selected_editor	30-03-2024 23:17	SELECTED_EDITOR...	1 KB
.sudo_as_admin_successful	12-03-2024 21:58	SUDO_AS_ADMIN...	0 KB
.viminfo	31-03-2024 14:46	VIMINFO File	2 KB
a	04-03-2024 20:43	Text Document	1 KB
al	30-03-2024 18:36	Text Document	1 KB
awk	04-03-2024 20:38	SH Source File	1 KB
chgrp	30-03-2024 22:25	SH Source File	1 KB
chown	30-03-2024 21:59	SH Source File	1 KB
dd	30-03-2024 23:03	SH Source File	1 KB
hdadisk	30-03-2024 23:07	Disc Image File	1 KB
outch	30-03-2024 23:07	Text Document	1 KB
outchown	30-03-2024 22:01	Text Document	4 KB
outdd	30-03-2024 23:06	Text Document	8 KB
partition	30-03-2024 23:07	Disc Image File	1 KB
symbolic_link	30-03-2024 22:25	File	1 KB
tgsservice	30-03-2024 23:07	Disc Image File	1 KB

25 items

99°F Sunny

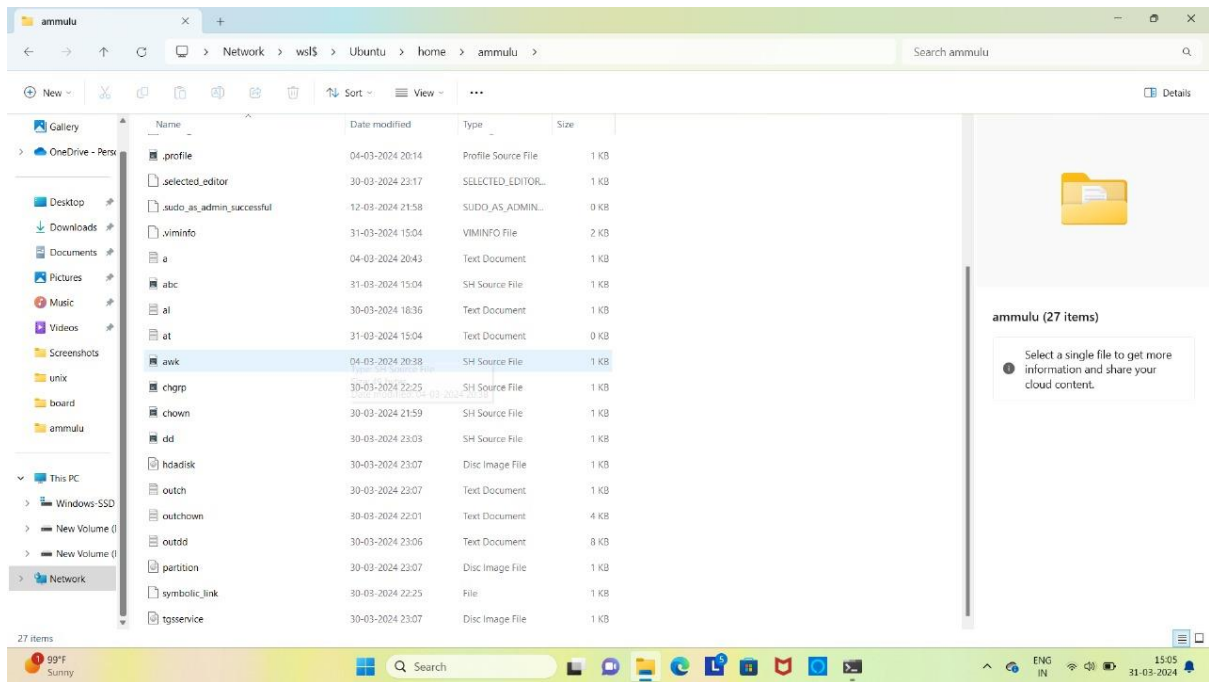
Search

ENG IN

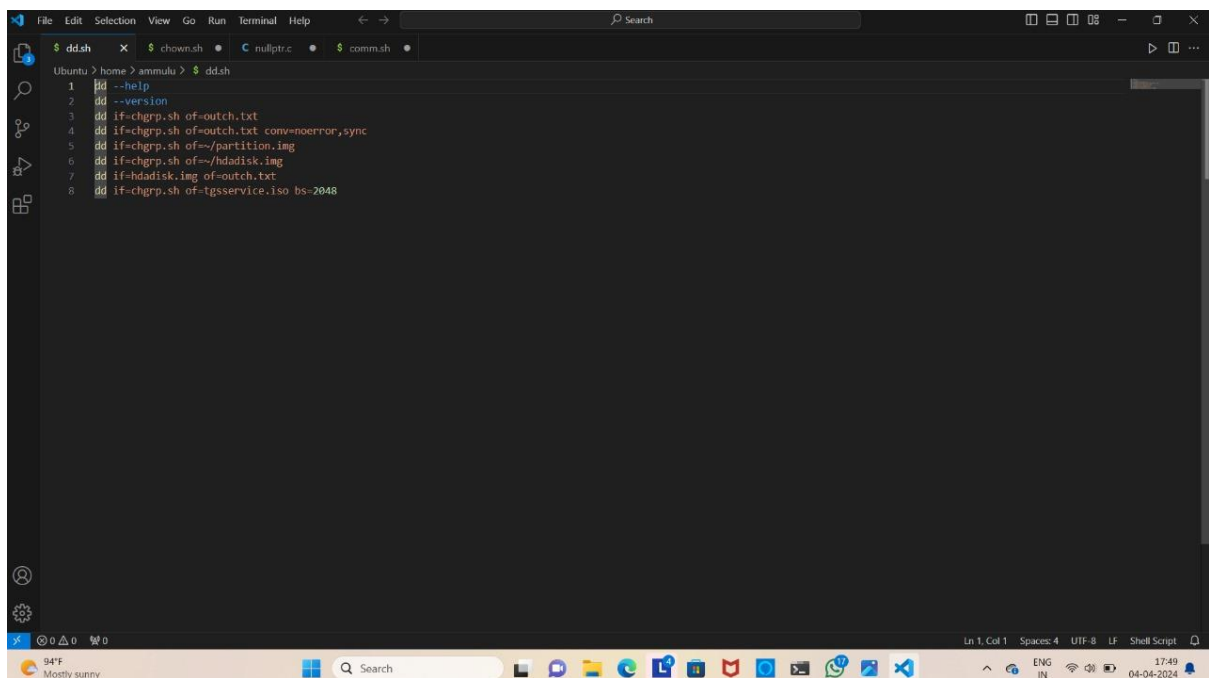
15:03 31-03-2024

ammulu (25 items)

Select a single file to get more information and share your cloud content.



dd command



Usage: dd [OPERAND]...

or: dd OPTION

Copy a file, converting and formatting according to the operands.

bs=BYTES read and write up to BYTES bytes at a time (default: 512);

overrides ibs and obs

cbs=BYTES convert BYTES bytes at a time
conv=CONVS convert the file as per the comma separated symbol list
count=N copy only N input blocks
ibs=BYTES read up to BYTES bytes at a time (default: 512)
if=FILE read from FILE instead of stdin
iflag=FLAGS read as per the comma separated symbol list
obs=BYTES write BYTES bytes at a time (default: 512)
of=FILE write to FILE instead of stdout
oflag=FLAGS write as per the comma separated symbol list
seek=N skip N obs-sized blocks at start of output
skip=N skip N ibs-sized blocks at start of input
status=LEVEL The LEVEL of information to print to stderr;
 'none' suppresses everything but error messages,
 'noxfer' suppresses the final transfer statistics,
 'progress' shows periodic transfer statistics

N and BYTES may be followed by the following multiplicative suffixes:

c=1, w=2, b=512, kB=1000, K=1024, MB=1000*1000, M=1024*1024, xM=M,

GB=1000*1000*1000, G=1024*1024*1024, and so on for T, P, E, Z, Y.

Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

Each CONV symbol may be:

ascii from EBCDIC to ASCII
ebcdic from ASCII to EBCDIC
ibm from ASCII to alternate EBCDIC
block pad newline-terminated records with spaces to cbs-size
unblock replace trailing spaces in cbs-size records with newline
lcase change upper case to lower case
ucase change lower case to upper case
sparse try to seek rather than write all-NUL output blocks

swab swap every pair of input bytes
sync pad every input block with NULs to ibs-size; when used
 with block or unblock, pad with spaces rather than NULs
excl fail if the output file already exists
nocreat do not create the output file
notrunc do not truncate the output file
noerror continue after read errors
fdatsync physically write output file data before finishing
fsync likewise, but also write metadata

Each FLAG symbol may be:

append append mode (makes sense only for output; conv=notrunc suggested)
direct use direct I/O for data
directory fail unless a directory
dsync use synchronized I/O for data
sync likewise, but also for metadata
fullblock accumulate full blocks of input (iflag only)
nonblock use non-blocking I/O
noatime do not update access time
nocache Request to drop cache. See also oflag=sync
noctty do not assign controlling terminal from file
nofollow do not follow symlinks
count_bytes treat 'count=N' as a byte count (iflag only)
skip_bytes treat 'skip=N' as a byte count (iflag only)
seek_bytes treat 'seek=N' as a byte count (oflag only)

Sending a USR1 signal to a running 'dd' process makes it
print I/O statistics to standard error and then resume copying.

Options are:

--help display this help and exit
--version output version information and exit

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report any translation bugs to <<https://translationproject.org/team/>>

Full documentation <<https://www.gnu.org/software/coreutils/dd>>

or available locally via: info '(coreutils) dd invocation'

dd (coreutils) 8.32

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Written by Paul Rubin, David MacKenzie, and Stuart Kemp.

Usage: dd [OPERAND]...

or: dd OPTION

Copy a file, converting and formatting according to the operands.

bs=BYTES read and write up to BYTES bytes at a time (default: 512);
overrides ibs and obs

cbs=BYTES convert BYTES bytes at a time

conv=CONVS convert the file as per the comma separated symbol list

count=N copy only N input blocks

ibs=BYTES read up to BYTES bytes at a time (default: 512)

if=FILE read from FILE instead of stdin

iflag=FLAGS read as per the comma separated symbol list

obs=BYTES write BYTES bytes at a time (default: 512)

of=FILE write to FILE instead of stdout

oflag=FLAGS write as per the comma separated symbol list

seek=N skip N obs-sized blocks at start of output

skip=N skip N ibs-sized blocks at start of input
status=LEVEL The LEVEL of information to print to stderr;
 'none' suppresses everything but error messages,
 'noxfer' suppresses the final transfer statistics,
 'progress' shows periodic transfer statistics

N and BYTES may be followed by the following multiplicative suffixes:

c=1, w=2, b=512, kB=1000, K=1024, MB=1000*1000, M=1024*1024, xM=M,
GB=1000*1000*1000, G=1024*1024*1024, and so on for T, P, E, Z, Y.

Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

Each CONV symbol may be:

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ebcdic from ASCII to EBCDIC
ibm from ASCII to alternate EBCDIC
block pad newline-terminated records with spaces to cbs-size
unblock replace trailing spaces in cbs-size records with newline
lcase change upper case to lower case
ucase change lower case to upper case
sparse try to seek rather than write all-NUL output blocks
swab swap every pair of input bytes
sync pad every input block with NULs to ibs-size; when used
 with block or unblock, pad with spaces rather than NULs
excl fail if the output file already exists
nocreat do not create the output file
notrunc do not truncate the output file
noerror continue after read errors
fdatsync physically write output file data before finishing
fsync likewise, but also write metadata

Each FLAG symbol may be:

append append mode (makes sense only for output; conv=notrunc suggested)
direct use direct I/O for data
directory fail unless a directory
dsync use synchronized I/O for data
sync likewise, but also for metadata
fullblock accumulate full blocks of input (iflag only)
nonblock use non-blocking I/O
noatime do not update access time
nocache Request to drop cache. See also oflag=sync
noctty do not assign controlling terminal from file
nofollow do not follow symlinks
count_bytes treat 'count=N' as a byte count (iflag only)
skip_bytes treat 'skip=N' as a byte count (iflag only)
seek_bytes treat 'seek=N' as a byte count (oflag only)

Sending a USR1 signal to a running 'dd' process makes it
print I/O statistics to standard error and then resume copying.

Options are:

--help display this help and exit
--version output version information and exit

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report any translation bugs to <<https://translationproject.org/team/>>

Full documentation <<https://www.gnu.org/software/coreutils/dd>>

or available locally via: info '(coreutils) dd invocation'

dd (coreutils) 8.32

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Written by Paul Rubin, David MacKenzie, and Stuart Kemp.