Name:K.Soujanya
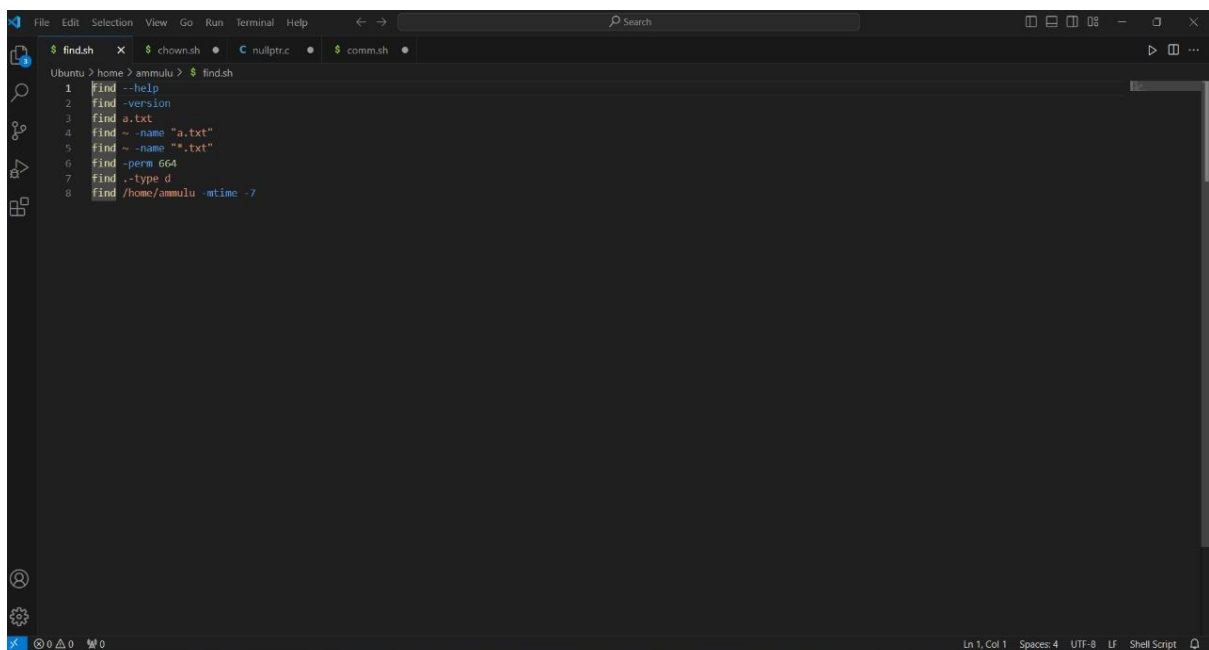
RollNo:422163

Section:CSE-A

Write shell script for commands
find,ftp,lock,ln,lp,lpstat,mesg

find command


```
1   find --help
2   find -version
3   find a.txt
4   find ~ -name "a.txt"
5   find ~ -name "*.txt"
6   find -perm 664
7   find .-type d
8   find /home/ammulu -mtime -7
```

Output: Usage: find [-H] [-L] [-P] [-Olevel] [-D debugopts] [path...] [expression]

default path is the current directory; default expression is -print

expression may consist of: operators, options, tests, and actions:

operators (decreasing precedence; -and is implicit where no others are given):

(EXPR)   ! EXPR   -not EXPR   EXPR1 -a EXPR2   EXPR1 -and EXPR2

EXPR1 -o EXPR2   EXPR1 -or EXPR2   EXPR1 , EXPR2

positional options (always true): -daystart -follow -regextype

normal options (always true, specified before other expressions):

-depth --help -maxdepth LEVELS -mindepth LEVELS -mount -noleaf

--version -xdev -ignore_readdir_race -noignore_readdir_race

tests (N can be +N or -N or N): -amin N -anewer FILE -atime N -cmin N

-cnewer FILE -ctime N -empty -false -fstype TYPE -gid N -group NAME

-ilname PATTERN -iname PATTERN -inum N -iwholename PATTERN -iregex PATTERN

-links N -lname PATTERN -mmin N -mtime N -name PATTERN -newer FILE

-nouser -nogroup -path PATTERN -perm [-/]MODE -regex PATTERN

-readable -writable -executable

-wholename PATTERN -size N[bcwkMG] -true -type [bcdpflsD] -uid N

-used N -user NAME -xtype [bcdpfls]   -context CONTEXT

actions: -delete -print0 -printf FORMAT -fprintf FILE FORMAT -print

-fprint0 FILE -fprint FILE -ls -fls FILE -prune -quit

-exec COMMAND ; -exec COMMAND {} + -ok COMMAND ;

-execdir COMMAND ; -execdir COMMAND {} + -okdir COMMAND ;

Valid arguments for -D:

exec, opt, rates, search, stat, time, tree, all, help

Use '-D help' for a description of the options, or see find(1)

Please see also the documentation at https://www.gnu.org/software/findutils/.

You can report (and track progress on fixing) bugs in the "find"

program via the GNU findutils bug-reporting page at

https://savannah.gnu.org/bugs/?group=findutils or, if

you have no web access, by sending email to <bug-findutils@gnu.org>.

find (GNU findutils) 4.8.0

Written by Eric B. Decker, James Youngman, and Kevin Dalley.

Features enabled: D_TYPE O_NOFOLLOW(enabled) LEAF_OPTIMISATION FTS(FTS_CWDFD) CBO(level=2)

a.txt

/home/ammulu/a.txt

/home/ammulu/at.txt

/home/ammulu/outfind.txt

/home/ammulu/outdd.txt

/home/ammulu/outdiff.txt

/home/ammulu/al.txt

/home/ammulu/outchown.txt

/home/ammulu/outch.txt

/home/ammulu/a.txt

/home/ammulu

/home/ammulu/at.txt

/home/ammulu/hdadisk.img

/home/ammulu/outfind.txt

/home/ammulu/outdd.txt

/home/ammulu/outdiff.txt

/home/ammulu/al.txt

/home/ammulu/.viminfo

/home/ammulu/.pgpkey

/home/ammulu/.lesshst

/home/ammulu/.bash_history

/home/ammulu/chown.sh

/home/ammulu/.local

/home/ammulu/.local/share

/home/ammulu/.local/share/nano

/home/ammulu/.local/share/nano/search_history

/home/ammulu/dd.sh

/home/ammulu/find.sh

/home/ammulu/outchown.txt

/home/ammulu/symbolic_link

/home/ammulu/finger.sh

/home/ammulu/.plan

/home/ammulu/.selected_editor

/home/ammulu/outch.txt

/home/ammulu/tgsservice.iso

/home/ammulu/.motd_shown

/home/ammulu/abc.sh

/home/ammulu/chgrp.sh

/home/ammulu/partition.img

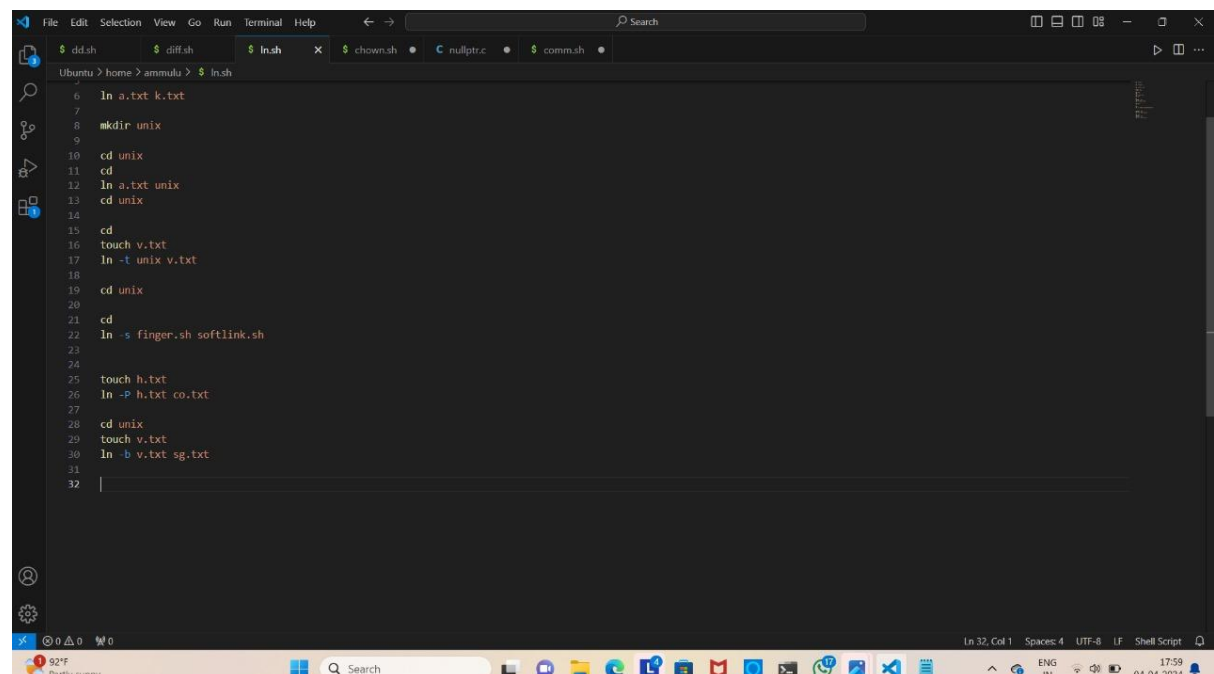/home/ammulu/diff.sh

/home/ammulu/.project

ftp command

lock command

```
ammulu@LAPTOP-I4949DCG:~$ lslocks
COMMAND    PID  TYPE SIZE MODE  M START END PATH
snapd      160 FLOCK      WRITE 0     0   0 /snap...
cron       143 FLOCK      WRITE 0     0   0 /run...
ammulu@LAPTOP-I4949DCG:~$
```

ln command

```
   6    ln a.txt k.txt
   7
   8    mkdir unix
   9
  10    cd unix
  11    cd
  12    ln a.txt unix
  13    cd unix
  14
  15    cd
  16    touch v.txt
  17    ln -t unix v.txt
  18
  19    cd unix
  20
  21    cd
  22    ln -s finger.sh softlink.sh
  23
  24
  25    touch h.txt
  26    ln -P h.txt co.txt
  27
  28    cd unix
  29    touch v.txt
  30    ln -b v.txt sg.txt
  31
  32    |
```

Output:

```
ln: failed to create hard link 'unix/v.txt': File exists
ln: failed to create symbolic link 'softlink.sh': File exists
ammulu@LAPTOP-I4949DCG:~ $ ln --help
Usage: ln [OPTION]... [-T] TARGET LINK_NAME
  or:  ln [OPTION]... TARGET
  or:  ln [OPTION]... TARGET... DIRECTORY
  or:  ln [OPTION]... -t DIRECTORY TARGET...
In the 1st form, create a link to TARGET with the name LINK_NAME.
In the 2nd form, create a link to TARGET in the current directory.
In the 3rd and 4th forms, create links to each TARGET in DIRECTORY.
Create hard links by default, symbolic links with --symbolic.
By default, each destination (name of new link) should not already exist.
When creating hard links, each TARGET must exist.  Symbolic links
can hold arbitrary text; if later resolved, a relative link is
interpreted in relation to its parent directory.

Mandatory arguments to long options are mandatory for short options too.
      --backup[=CONTROL]      make a backup of each existing destination file
  -b                          like --backup but does not accept an argument
  -d, -F, --directory         allow the superuser to attempt to hard link
                                directories (note: will probably fail due to
                                system restrictions, even for the superuser)
  -f, --force                 remove existing destination files
  -i, --interactive           prompt whether to remove destinations
  -L, --logical               dereference TARGETs that are symbolic links
  -n, --no-dereference        treat LINK_NAME as a normal file if
                                it is a symbolic link to a directory
  -P, --physical              make hard links directly to symbolic links
  -r, --relative              create symbolic links relative to link location
  -s, --symbolic              make symbolic links instead of hard links
  -S, --suffix=SUFFIX         override the usual backup suffix
  -t, --target-directory=DIRECTORY  specify the DIRECTORY in which to create
                                the links
  -T, --no-target-directory   treat LINK_NAME as a normal file always
  -v, --verbose               print name of each linked file
      --help     display this help and exit
      --version  output version information and exit
```

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

The backup suffix is '~', unless set with --suffix or SIMPLE_BACKUP_SUFFIX.
The version control method may be selected via the --backup option or through
the VERSION_CONTROL environment variable.  Here are the values:

  none, off       never make backups (even if --backup is given)
  numbered, t     make numbered backups
  existing, nil   numbered if numbered backups exist, simple otherwise
  simple, never   always make simple backups

Using -s ignores -L and -P.  Otherwise, the last option specified controls
behavior when a TARGET is a symbolic link, defaulting to -P.

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/ln>
or available locally via: info '(coreutils) ln invocation'
ammulu@LAPTOP-I4949DCG: $ ln --version
ln (GNU coreutils) 8.32
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Mike Parker and David MacKenzie.
ammulu@LAPTOP-I4949DCG: $ ls
a.txt    at.txt    chown.sh  diff.sh    h.txt          ln.sh       outdd.txt     partition.img  tgsservice.iso
abc.sh   awk.sh    co.txt    find.sh    hdadisk.img  outch.txt   outdiff.txt   softlink.sh    unix
al.txt   chgrp.sh  dd.sh                finger.sh  k.txt          outchown.txt  outfind.txt   symbolic_link  v.txt
ammulu@LAPTOP-I4949DCG: $ ln a.txt k.txt
ln: failed to create hard link 'k.txt': File exists
ammulu@LAPTOP-I4949DCG: $ ln a.txt gy.txt
ammulu@LAPTOP-I4949DCG: $ ls
a.txt    awk.sh    dd.sh       gy.txt       ln.sh        outdiff.txt    symbolic_link
abc.sh   chgrp.sh  diff.sh     h.txt        outch.txt    outfind.txt    tgsservice.iso
al.txt   chown.sh  find.sh     hdadisk.img  outchown.txt partition.img  unix
```

```
a.txt    awk.sh    dd.sh       gy.txt       ln.sh        outdiff.txt    symbolic_link
abc.sh   chgrp.sh  diff.sh     h.txt        outch.txt    outfind.txt    tgsservice.iso
al.txt   chown.sh  find.sh     hdadisk.img  outchown.txt partition.img  unix
at.txt   co.txt    finger.sh   k.txt        outdd.txt    softlink.sh    v.txt
ammulu@LAPTOP-I4949DCG: $ ln a.txt unix
ln: failed to create hard link 'unix/a.txt': File exists
ammulu@LAPTOP-I4949DCG: $
ammulu@LAPTOP-I4949DCG: $ ln u.txt unix
ln: failed to access 'u.txt': No such file or directory
ammulu@LAPTOP-I4949DCG: $ ln outch.txt unix
ammulu@LAPTOP-I4949DCG: $ cd unix
ammulu@LAPTOP-I4949DCG:~/unix$
ammulu@LAPTOP-I4949DCG:~/unix$ ls
a.txt    find.sh   finger.sh   outch.txt  sg.txt   sg.txt~   v.txt
ammulu@LAPTOP-I4949DCG:~/unix$ cd
ammulu@LAPTOP-I4949DCG: $ touch f.txt
ammulu@LAPTOP-I4949DCG: $ ln -t unix f.txt
ammulu@LAPTOP-I4949DCG: $ cd unix
ammulu@LAPTOP-I4949DCG:~/unix$ ls
a.txt    f.txt   find.sh   finger.sh   outch.txt  sg.txt   sg.txt~   v.txt
ammulu@LAPTOP-I4949DCG:~/unix$ cd
ammulu@LAPTOP-I4949DCG:~/unix$ ln -s outfind.txt softlink
ammulu@LAPTOP-I4949DCG: $ ls
a.txt    awk.sh    dd.sh       finger.sh   k.txt        outdd.txt     softlink       unix
abc.sh   chgrp.sh  diff.sh     gy.txt      ln.sh        outdiff.txt   softlink.sh    v.txt
al.txt   chown.sh  f.txt       h.txt       outch.txt    outfind.txt   symbolic_link
at.txt   co.txt    find.sh     hdadisk.img outchown.txt partition.img tgsservice.iso
ammulu@LAPTOP-I4949DCG: $ touch ed.txt
ammulu@LAPTOP-I4949DCG: $ ln -P ed.txt jk.txt
ammulu@LAPTOP-I4949DCG: $ ls
a.txt    awk.sh    dd.sh       find.sh     hdadisk.img  outch.txt    outfind.txt    symbolic_link
abc.sh   chgrp.sh  diff.sh     finger.sh   jk.txt       outchown.txt partition.img  tgsservice.iso
al.txt   chown.sh  ed.txt      gy.txt      k.txt        outdd.txt    softlink       unix
at.txt   co.txt    f.txt       h.txt       ln.sh        outdiff.txt  softlink.sh    v.txt
ammulu@LAPTOP-I4949DCG: $
ammulu@LAPTOP-I4949DCG: $ touch rw.txt
ammulu@LAPTOP-I4949DCG: $ ln -b rw.txt d.txt
ammulu@LAPTOP-I4949DCG: $ ls
```
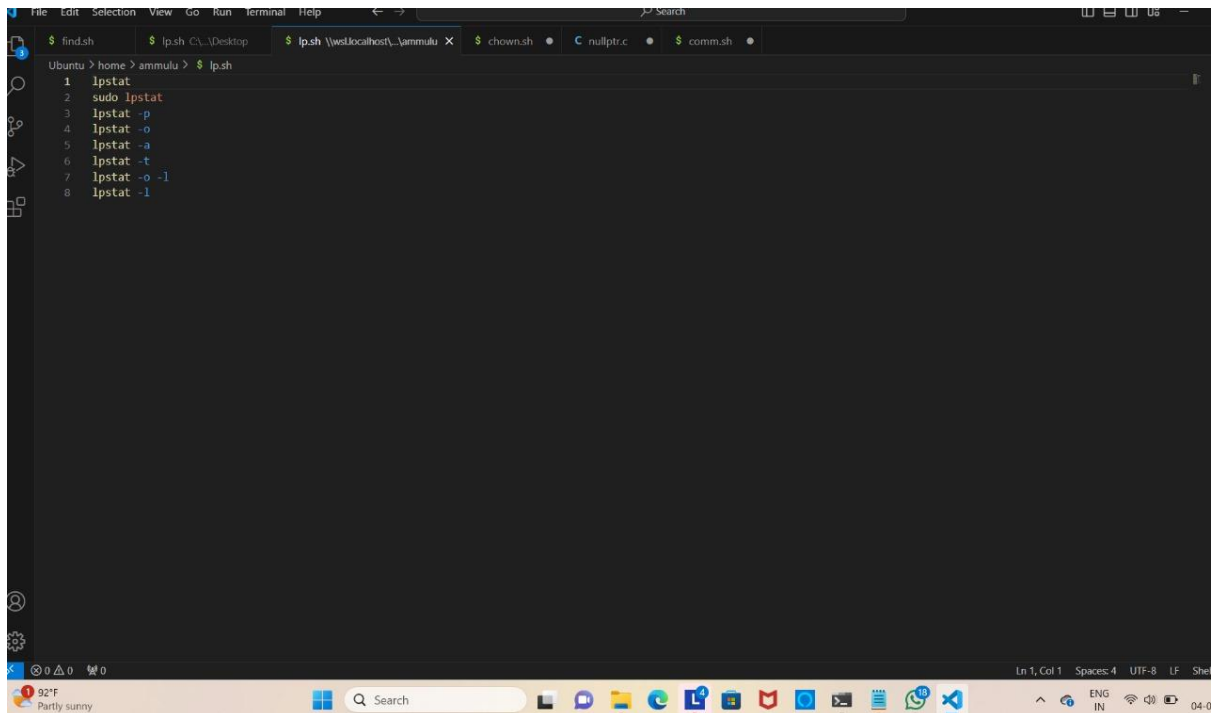
Lp command

Output:

```
lp: Error - No default destination.
ammulu@LAPTOP-I4949DCG:/mnt/c/Users/K SOUJANYA/Desktop$ lp --help
Usage: lp [options] [--] [file(s)]
       lp [options] -i id
Options:
-c                        Make a copy of the print file(s)
-d destination            Specify the destination
-E                        Encrypt the connection to the server
-h server[:port]          Connect to the named server and port
-H HH:MM                  Hold the job until the specified UTC time
-H hold                   Hold the job until released/resumed
-H immediate              Print the job as soon as possible
-H restart                Reprint the job
-H resume                 Resume a held job
-i id                     Specify an existing job ID to modify
-m                        Send an email notification when the job completes
-n num-copies             Specify the number of copies to print
-o option[=value]         Specify a printer-specific option
-o job-sheets=standard    Print a banner page with the job
-o media=size             Specify the media size to use
-o number-up=N            Specify that input pages should be printed N-up (1, 2, 4, 6, 9, and 16 are supported)
-o orientation-requested=N
                          Specify portrait (3) or landscape (4) orientation
-o print-quality=N        Specify the print quality - draft (3), normal (4), or best (5)
-o sides=one-sided        Specify 1-sided printing
-o sides=two-sided-long-edge
                          Specify 2-sided portrait printing
-o sides=two-sided-short-edge
                          Specify 2-sided landscape printing
-P page-list              Specify a list of pages to print
-q priority               Specify the priority from low (1) to high (100)
-s                        Be silent
-t title                  Specify the job title
-U username               Specify the username to use for authentication
```

```
-t title                  Specify the job title
-U username               Specify the username to use for authentication
ammulu@LAPTOP-I4949DCG:/mnt/c/Users/K SOUJANYA/Desktop$ lp --version
lp: Error - unknown option "--version".
Usage: lp [options] [--] [file(s)]
       lp [options] -i id
Options:
-c                        Make a copy of the print file(s)
-d destination            Specify the destination
-E                        Encrypt the connection to the server
-h server[:port]          Connect to the named server and port
-H HH:MM                  Hold the job until the specified UTC time
-H hold                   Hold the job until released/resumed
-H immediate              Print the job as soon as possible
-H restart                Reprint the job
-H resume                 Resume a held job
-i id                     Specify an existing job ID to modify
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-o number-up=N            Specify that input pages should be printed N-up (1, 2, 4, 6, 9, and 16 are supported)
-o orientation-requested=N
                          Specify portrait (3) or landscape (4) orientation
-o print-quality=N        Specify the print quality - draft (3), normal (4), or best (5)
-o sides=one-sided        Specify 1-sided printing
-o sides=two-sided-long-edge
                          Specify 2-sided portrait printing
-o sides=two-sided-short-edge
                          Specify 2-sided landscape printing
-P page-list              Specify a list of pages to print
-q priority               Specify the priority from low (1) to high (100)
-s                        Be silent
-t title                  Specify the job title
-U username               Specify the username to use for authentication
```

Lpstat command

Mesg command