

```
[harvijaysingh@HARVIJAY cmd_practice % mkdir raw_logs processed_logs delivery_package
[harvijaysingh@HARVIJAY cmd_practice % mkdir raw_logs processed_logs delivery_package
mkdir: raw_logs: File exists
mkdir: processed_logs: File exists
mkdir: delivery_package: File exists
[harvijaysingh@HARVIJAY cmd_practice % echo "[2025-06-17 15:10] INFO: User 'admin' logged in." > raw_logs/app_1.log
[harvijaysingh@HARVIJAY cmd_practice % echo "[2025-06-17 15:11] ERROR: Failed to connect to database. Service unavailable." >> raw_logs/app_1.log
[harvijaysingh@HARVIJAY cmd_practice % echo "[2025-06-17 15:12] INFO: Server startup complete." > raw_logs/server.log
[harvijaysingh@HARVIJAY cmd_practice % echo "[2025-06-17 15:13] WARN: Disk space is running low." >> raw_logs/server.log
[harvijaysingh@HARVIJAY cmd_practice % echo "[2025-06-17 15:14] FATAL_ERROR: Authentication service failed." > raw_logs/auth_service.txt
[harvijaysingh@HARVIJAY cmd_practice % find raw_logs/ -type f
raw_logs/auth_service.txt
raw_logs/server.log
raw_logs/app_1.log
[harvijaysingh@HARVIJAY cmd_practice % grep -r "ERROR" raw_logs/
raw_logs/auth_service.txt:[2025-06-17 15:14] FATAL_ERROR: Authentication service failed.
raw_logs/app_1.log:[2025-06-17 15:11] ERROR: Failed to connect to database. Service unavailable.
[harvijaysingh@HARVIJAY cmd_practice % grep -r "ERROR" raw_logs/ > processed_logs/error_summary.txt
[harvijaysingh@HARVIJAY cmd_practice % tar -czvf delivery_package/full_analysis.tar.gz raw_logs/processed_logs/
tar: raw_logs/processed_logs: Cannot stat: No such file or directory
tar: Error exit delayed from previous errors.
[harvijaysingh@HARVIJAY cmd_practice % zip delivery_package/error_summary.zip processed_logs/error_summary.txt
    adding: processed_logs/error_summary.txt (deflated 25%)
[harvijaysingh@HARVIJAY cmd_practice % ls delivery_package/
error_summary.zip      full_analysis.tar.gz
harvijaysingh@HARVIJAY cmd_practice %
```

```
[harvijaysingh@HARVIJAY cmd_practice % git init
Initialized empty Git repository in /Users/v4virk/Desktop/cmd_practice/.git/
[harvijaysingh@HARVIJAY cmd_practice % git remote add origin https://github.com/v4virk/cmd_practice.git
[harvijaysingh@HARVIJAY cmd_practice % git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
    add
[harvijaysingh@HARVIJAY cmd_practice % git add .
[harvijaysingh@HARVIJAY cmd_practice % git commit -m "all the commands run over mac"
[main (root-commit) dff6787] all the commands run over mac
 32 files changed, 12 insertions(+)
create mode 100644 .DS_Store
create mode 100644 drive-clone/.DS_Store
create mode 100644 find_exercise/.DS_Store
create mode 100644 find_exercise/data_sub/config.txt
create mode 100644 find_exercise/data_sub/more_data.csv
create mode 100644 find_exercise/metrics.log
create mode 100644 find_exercise/report.txt
create mode 100644 find_exercise/server.log
create mode 100644 find_exercise/user_data.csv
create mode 100644 find_exercise/zip_test/.DS_Store
create mode 100644 find_exercise/zip_test/my_data_backup.tar.gz
create mode 100644 find_exercise/zip_test/my_web_files.zip
create mode 100644 find_exercise/zip_test/tar_test/.DS_Store
create mode 100644 find_exercise/zip_test/tar_test/data/config.json
create mode 100644 find_exercise/zip_test/test1.txt
create mode 100644 find_exercise/zip_test/test2.html
create mode 100644 find_exercise/zip_test/test3.css
create mode 100644 fruits.txt
create mode 100644 my_notes.txt
create mode 100644 my_project/.DS_Store
create mode 100644 my_project/archive/report.txt
create mode 100644 my_project/data.csv
create mode 100644 my_project/document1.txt
create mode 100644 my_project/document2.md
create mode 100644 my_project/photo.jpg
create mode 100644 my_project/report.txt
create mode 100644 my_project/report_final.txt
create mode 100644 projects/.DS_Store
create mode 100644 projects/abcd.txt
create mode 100644 projects/google-drive-clone/.DS_Store
create mode 100644 temp_search/data.csv
create mode 100644 temp_search/fileA.log
[harvijaysingh@HARVIJAY cmd_practice % git add .
[harvijaysingh@HARVIJAY cmd_practice % git commit -m "all the commands run over mac"
[main d26f4cc] all the commands run over mac
 8 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1.png
create mode 100644 2.png
create mode 100644 3.png
create mode 100644 4.png
create mode 100644 5.png
create mode 100644 6.png
create mode 100644 7.png
[harvijaysingh@HARVIJAY cmd_practice % git branch -M main
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % git push -u origin main
Enumerating objects: 39, done.
Counting objects: 100% (39/39), done.
Delta compression using up to 8 threads
Compressing objects: 100% (31/31), done.
Writing objects: 100% (39/39), 12.81 MiB | 1.07 MiB/s, done.
Total 39 (delta 9), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/v4virk/cmd_practice.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
[harvijaysingh@HARVIJAY cmd_practice % ]
```

zip_test — zsh — 242x74

```
[harvijaysingh@HARVIJAY cmd_practice % echo "apple" > fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "banana" >> fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "Apple" >> fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % grep "apple" fruits.txt
apple
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % grep -i "apple" fruits.txt
apple
Apple
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % ls -l | grep "Jun"
[harvijaysingh@HARVIJAY cmd_practice % mkdir temp_search
[harvijaysingh@HARVIJAY cmd_practice % touch temp_search/fileA.log temp_search/data.csv
[harvijaysingh@HARVIJAY cmd_practice % find . -name "file*.log"
./temp_search/fileA.log
[harvijaysingh@HARVIJAY cmd_practice % find temp_search -type f
temp_search/data.csv
temp_search/fileA.log
[harvijaysingh@HARVIJAY cmd_practice % echo "This is a test note." > my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % echo "Something important here." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "Another line." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % grep "important" my_notes.txt
Something important here.
[harvijaysingh@HARVIJAY cmd_practice % echo "Very Important details." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % grep -i "important" my_notes.txt
Something important here.
Very Important details.
[harvijaysingh@HARVIJAY cmd_practice % mkdir find_exercise
[harvijaysingh@HARVIJAY cmd_practice % cd find_exercise
[harvijaysingh@HARVIJAY find_exercise % touch report.txt server.log user_data.csv metrics.log
[harvijaysingh@HARVIJAY find_exercise % mkdir data_sub
[harvijaysingh@HARVIJAY find_exercise % touch data_sub/more_data.csv data_sub/config.txt
[harvijaysingh@HARVIJAY find_exercise % find . -name "*.csv"
./data_sub/more_data.csv
./user_data.csv
[harvijaysingh@HARVIJAY find_exercise % mkdir zip_test
[harvijaysingh@HARVIJAY find_exercise % cd zip_test
[harvijaysingh@HARVIJAY zip_test % touch test1.txt test2.html test3.css
[harvijaysingh@HARVIJAY zip_test % zip my_web_files.zip test1.txt test2.html test3.css
  adding: test1.txt (stored 0%)
  adding: test2.html (stored 0%)
  adding: test3.css (stored 0%)
[harvijaysingh@HARVIJAY zip_test % rm test*.txt test*.html test*.css
[harvijaysingh@HARVIJAY zip_test % ls
my_web_files.zip
[harvijaysingh@HARVIJAY zip_test % unzip my_web_files.zip
Archive: my_web_files.zip
 extracting: test1.txt
 extracting: test2.html
 extracting: test3.css
[harvijaysingh@HARVIJAY zip_test % ls
my_web_files.zip      test1.txt          test2.html          test3.css
[harvijaysingh@HARVIJAY zip_test % mkdir tar_test
[harvijaysingh@HARVIJAY zip_test % cd tar_test
[harvijaysingh@HARVIJAY tar_test % mkdir data
[harvijaysingh@HARVIJAY tar_test % echo "{}" > data/config.json
[harvijaysingh@HARVIJAY tar_test %
[harvijaysingh@HARVIJAY tar_test % cd ..
[harvijaysingh@HARVIJAY zip_test % tar -czvf my_data_backup.tar.gz tar_test/
a tar_test
a tar_test/data
a tar_test/data/config.json
[harvijaysingh@HARVIJAY zip_test % rm -r tar_test/
[harvijaysingh@HARVIJAY zip_test % ls
my_data_backup.tar.gz  my_web_files.zip      test1.txt          test2.html          test3.css
[harvijaysingh@HARVIJAY zip_test % tar -xzvf my_data_backup.tar.gz
x tar_test/
x tar_test/data/
x tar_test/data/config.json
[harvijaysingh@HARVIJAY zip_test % ls
my_data_backup.tar.gz  my_web_files.zip      tar_test          test1.txt          test2.html          test3.css
[harvijaysingh@HARVIJAY zip_test % ls tar_test/data/
config.json
[harvijaysingh@HARVIJAY zip_test %
```

```
[harvijaysingh@HARVIJAY my_project % lscpu
zsh: command not found: lscpu
[harvijaysingh@HARVIJAY my_project % cd
[harvijaysingh@HARVIJAY ~ % lscpu
zsh: command not found: lscpu
[harvijaysingh@HARVIJAY ~ % sysctl -a | grep machdep.cpu
machdep.cpu.cores_per_package: 8
machdep.cpu.core_count: 8
machdep.cpu.logical_per_package: 8
machdep.cpu.thread_count: 8
machdep.cpu.brand_string: Apple M2
[harvijaysingh@HARVIJAY ~ % ls --help
ls: unrecognized option '--help'
usage: ls [-@ABCDEFGHIOPRSTUXabcdefgijklmnoprstuvwxyz1%,] [--color=when] [-D format] [file ...]
[harvijaysingh@HARVIJAY ~ % cd cmd_practice
[harvijaysingh@HARVIJAY cmd_practice % ls --help
ls: unrecognized option '--help'
usage: ls [-@ABCDEFGHIOPRSTUXabcdefgijklmnoprstuvwxyz1%,] [--color=when] [-D format] [file ...]
[harvijaysingh@HARVIJAY cmd_practice % man ls
[harvijaysingh@HARVIJAY cmd_practice % help cd
zsh: command not found: help
[harvijaysingh@HARVIJAY cmd_practice % cd help
cd: no such file or directory: help
[harvijaysingh@HARVIJAY cmd_practice % help echo
zsh: command not found: help
[harvijaysingh@HARVIJAY cmd_practice % help echo
zsh: command not found: help
[harvijaysingh@HARVIJAY cmd_practice % echo Hello World
Hello World
harvijaysingh@HARVIJAY cmd_practice % man echo

[harvijaysingh@HARVIJAY cmd_practice % echo "apple" > fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "banana" >> fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "Apple" >> fruits.txt
[harvijaysingh@HARVIJAY cmd_practice % grep "apple" fruits.txt
apple
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % grep -i "apple" fruits.txt
apple
Apple
[harvijaysingh@HARVIJAY cmd_practice % ls -l | grep "Jun"
[harvijaysingh@HARVIJAY cmd_practice % mkdir temp_search
[harvijaysingh@HARVIJAY cmd_practice % touch temp_search/fileA.log temp_search/data.csv
[harvijaysingh@HARVIJAY cmd_practice % find . -name "file*.log"
./temp_search/fileA.log
[harvijaysingh@HARVIJAY cmd_practice % find temp_search -type f
temp_search/data.csv
temp_search/fileA.log
[harvijaysingh@HARVIJAY cmd_practice % echo "This is a test note." > my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice %
[harvijaysingh@HARVIJAY cmd_practice % echo "Something important here." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % echo "Another line." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % grep "important" my_notes.txt
Something important here.
[harvijaysingh@HARVIJAY cmd_practice % echo "Very Important details." >> my_notes.txt
[harvijaysingh@HARVIJAY cmd_practice % grep -i "important" my_notes.txt
Something important here.
Very Important details.
[harvijaysingh@HARVIJAY cmd_practice % mkdir find_exercise
[harvijaysingh@HARVIJAY cmd_practice % cd find_exercise
[harvijaysingh@HARVIJAY find_exercise % touch report.txt server.log user_data.csv metrics.log
[harvijaysingh@HARVIJAY find_exercise % mkdir data_sub
[harvijaysingh@HARVIJAY find_exercise % touch data_sub/more_data.csv data_sub/config.txt
[harvijaysingh@HARVIJAY find_exercise % find . -name "*.csv"
./data_sub/more_data.csv
./user_data.csv
[harvijaysingh@HARVIJAY find_exercise % mkdir zip_test
[harvijaysingh@HARVIJAY find_exercise % cd zip_test
[harvijaysingh@HARVIJAY zip_test % touch test1.txt test2.html test3.css
[harvijaysingh@HARVIJAY zip_test % zip my_web_files.zip test1.txt test2.html test3.css
adding: test1.txt (stored 0%)
adding: test2.html (stored 0%)
adding: test3.css (stored 0%)
[harvijaysingh@HARVIJAY zip_test % rm test*.txt test*.html test*.css
```

```
[harvijaysingh@HARVIJAY my_project % ls doc?.txt
zsh: no matches found: doc?.txt
[harvijaysingh@HARVIJAY my_project %
[harvijaysingh@HARVIJAY my_project % ls *.md
document2.md
[harvijaysingh@HARVIJAY my_project % ls report*.txt
report_final.txt      report.txt
[harvijaysingh@HARVIJAY my_project % top
[harvijaysingh@HARVIJAY my_project % top
[harvijaysingh@HARVIJAY my_project % ps aux | grep bash
harvijaysingh  51548  0.0  0.0 410724400  1424 s000  S+  11:14PM  0:00.00 grep bash
[harvijaysingh@HARVIJAY my_project % echo "alias ll='ls -la'" >> ~/.bashrc
[harvijaysingh@HARVIJAY my_project % source ~/.bashrc
[harvijaysingh@HARVIJAY my_project % ll
total 8
drwxr-xr-x  9 harvijaysingh  staff  288 10 Aug 23:13 .
drwxr-xr-x  7 harvijaysingh  staff  224 10 Aug 23:12 ..
drwxr-xr-x  3 harvijaysingh  staff   96 10 Aug 23:12 archive
-rw-r--r--  1 harvijaysingh  staff   25 10 Aug 23:12 data.csv
-rw-r--r--  1 harvijaysingh  staff   0 10 Aug 23:13 document1.txt
-rw-r--r--  1 harvijaysingh  staff   0 10 Aug 23:13 document2.md
-rw-r--r--  1 harvijaysingh  staff   0 10 Aug 23:13 photo.jpg
-rw-r--r--  1 harvijaysingh  staff   0 10 Aug 23:13 report_final.txt
-rw-r--r--  1 harvijaysingh  staff   0 10 Aug 23:12 report.txt
[harvijaysingh@HARVIJAY my_project % history
1165 echo "Name,Age" > data.csv
1166 echo "Alice,30" >> data.csv
1167 echo "Bob,24" >> data.csv
1168 cat data.csv
1169 less data.csv
1170 touch document1.txt document2.md photo.jpg report_final.txt
1171 ls *.txt
1172 ls doc?.txt
1173 ls *.md
1174 ls report*.txt
1175 top
1176 top
1177 ps aux | grep bash
1178 echo "alias ll='ls -la'" >> ~/.bashrc
1179 source ~/.bashrc
1180 ll
[harvijaysingh@HARVIJAY my_project % !10
bash /tmp/terminal_script_4.sh
bash: /tmp/terminal_script_4.sh: No such file or directory
[harvijaysingh@HARVIJAY my_project % df -h
Filesystem      Size   Used  Avail Capacity iused ifree %iused Mounted on
/dev/disk3s1s1  460Gi  14Gi  256Gi   6%   426k  2.7G  0%   /
devfs          205Ki  205Ki  0Bi  100%    719    0  100%   /dev
/dev/disk3s6   460Gi  20Ki  256Gi   1%     0  2.7G  0%   /System/Volumes/VM
/dev/disk3s2   460Gi  13Gi  256Gi   5%   1.8k  2.7G  0%   /System/Volumes/Preboot
/dev/disk3s4   460Gi  686Mi  256Gi   1%   328  2.7G  0%   /System/Volumes/Update
/dev/disk1s2   500Mi  6.0Mi  483Mi   2%     1  4.9M  0%   /System/Volumes/xarts
/dev/disk1s1   500Mi  5.6Mi  483Mi   2%   34  4.9M  0%   /System/Volumes/iSCSPreboot
/dev/disk1s3   500Mi  912Ki  483Mi   1%   65  4.9M  0%   /System/Volumes/Hardware
/dev/disk3s5   460Gi  175Gi  256Gi  41%   1.7M  2.7G  0%   /System/Volumes/Data
map auto_home   0Bi   0Bi   0Bi  100%     0    0   -   /System/Volumes/Data/home
/dev/disk2s1   5.0Gi  1.8Gi  3.1Gi  38%   65  33M  0%   /System/Volumes/Update/SFR/mnt1
/dev/disk3s1   460Gi  14Gi  256Gi   6%   426k  2.7G  0%   /System/Volumes/Update/mnt1
[harvijaysingh@HARVIJAY my_project % lscpu
zsh: command not found: lscpu
[harvijaysingh@HARVIJAY my_project % cd
[harvijaysingh@HARVIJAY ~ % lscpu
zsh: command not found: lscpu
[harvijaysingh@HARVIJAY ~ % sysctl -a | grep machdep.cpu
machdep.cpu.cores_per_package: 8
machdep.cpu.core_count: 8
machdep.cpu.logical_per_package: 8
machdep.cpu.thread_count: 8
machdep.cpu.brand_string: Apple M2
[harvijaysingh@HARVIJAY ~ % ls --help
ls: unrecognized option '--help'
usage: ls [-OABCFGHIOPRSTUWXabcdefghijklmnopqrstuvwxyz1%,] [--color=when] [-D format] [file ...]
[harvijaysingh@HARVIJAY ~ % cd cmd_practice
[harvijaysingh@HARVIJAY cmd_practice % ls --help
```

```
[harvijaysingh@HARVIJAY cmd_practice % pwd
/Users/harvijaysingh/cmd_practice
[harvijaysingh@HARVIJAY cmd_practice % ls
drive-clone  projects
[harvijaysingh@HARVIJAY cmd_practice % ls -l
total 0
drwxr-xr-x  4 harvijaysingh  staff  128 31 Jul 23:01 drive-clone
drwxr-xr-x  4 harvijaysingh  staff  128 29 Jul 22:20 projects
[harvijaysingh@HARVIJAY cmd_practice % ls -a
.          ..        .DS_Store     drive-clone  projects
[harvijaysingh@HARVIJAY cmd_practice % ls -la
total 16
drwxr-xr-x  5 harvijaysingh  staff  160 10 Aug 23:04 .
drwxr-xr-x  105 harvijaysingh staff  3360 10 Aug 23:04 ..
-rw-r--r--@  1 harvijaysingh  staff  6148 10 Aug 23:04 .DS_Store
drwxr-xr-x  4 harvijaysingh  staff  128 31 Jul 23:01 drive-clone
drwxr-xr-x  4 harvijaysingh  staff  128 29 Jul 22:20 projects
[harvijaysingh@HARVIJAY cmd_practice % cd ..
[harvijaysingh@HARVIJAY ~ % cd cmd_practice
[harvijaysingh@HARVIJAY cmd_practice % cd ~
[harvijaysingh@HARVIJAY ~ % cd cmd_practice
[harvijaysingh@HARVIJAY cmd_practice % mkdir new_demo_file
[harvijaysingh@HARVIJAY cmd_practice % ls -a
.          ..        .DS_Store     drive-clone  new_demo_file  projects
[harvijaysingh@HARVIJAY cmd_practice % cd new_demo_file
[harvijaysingh@HARVIJAY new_demo_file % cd ~/Users/harvijaysingh/cmd_practice/projects
cd: no such file or directory: /Users/harvijaysingh/Users/harvijaysingh/cmd_practice/projects
[harvijaysingh@HARVIJAY new_demo_file % cd ~/cmd_practice/projects
[harvijaysingh@HARVIJAY projects % nano abcd.txt
[harvijaysingh@HARVIJAY projects % cp abcd.txt ~/cmd_practice/drive-clone
[harvijaysingh@HARVIJAY projects % cd ../drive-clone
[harvijaysingh@HARVIJAY drive-clone % ls -l
total 8
-rw-r--r--  1 harvijaysingh  staff  50 10 Aug 23:07 abcd.txt
drwxr-xr-x  11 harvijaysingh staff  352 31 Jul 23:01 google-drive-clone
[harvijaysingh@HARVIJAY drive-clone % mv abcd.txt ~/cmd_practice/new_demo_file
[harvijaysingh@HARVIJAY drive-clone % cd ../new_demo_file
[harvijaysingh@HARVIJAY new_demo_file % ls -a
.          ..        abcd.txt
[harvijaysingh@HARVIJAY new_demo_file % cd ../drive-clone
[harvijaysingh@HARVIJAY drive-clone % la
zsh: command not found: la
[harvijaysingh@HARVIJAY drive-clone % ls
google-drive-clone
[harvijaysingh@HARVIJAY drive-clone % cd ../new_demo_file
[harvijaysingh@HARVIJAY new_demo_file % rm abcd.txt
[harvijaysingh@HARVIJAY new_demo_file % ls -l
total 0
[harvijaysingh@HARVIJAY new_demo_file % cd ..
[harvijaysingh@HARVIJAY cmd_practice % mkdir my_project
[harvijaysingh@HARVIJAY cmd_practice % cd my_project
[harvijaysingh@HARVIJAY my_project % pwd
/Users/harvijaysingh/cmd_practice/my_project
[harvijaysingh@HARVIJAY my_project % touch report.txt data.csv
[harvijaysingh@HARVIJAY my_project % mkdir archive
[harvijaysingh@HARVIJAY my_project % cp report.txt archive/
[harvijaysingh@HARVIJAY my_project % ls -la
total 0
drwxr-xr-x  5 harvijaysingh  staff  160 10 Aug 23:12 .
drwxr-xr-x  7 harvijaysingh  staff  224 10 Aug 23:12 ..
drwxr-xr-x  3 harvijaysingh  staff   96 10 Aug 23:12 archive
-rw-r--r--  1 harvijaysingh  staff    0 10 Aug 23:12 data.csv
-rw-r--r--  1 harvijaysingh  staff    0 10 Aug 23:12 report.txt
[harvijaysingh@HARVIJAY my_project % echo "Name,Age" > data.csv
[harvijaysingh@HARVIJAY my_project % echo "Alice,30" >> data.csv
[harvijaysingh@HARVIJAY my_project % echo "Bob,24" >> data.csv
[harvijaysingh@HARVIJAY my_project % cat data.csv
Name,Age
Alice,30
Bob,24
[harvijaysingh@HARVIJAY my_project % less data.csv
[harvijaysingh@HARVIJAY my_project % touch document1.txt document2.md photo.jpg report_final.txt
[harvijaysingh@HARVIJAY my_project % ls *.txt
document1.txt      report_final.txt      report.txt
```

ECHO(1)

NAME**echo** — write arguments to the standard output**SYNOPSIS****echo** [**-n**] [string ...]**DESCRIPTION**The **echo** utility writes any specified operands, separated by single blank (' ') characters and followed by a newline ('\n') character, to the standard output.

The following option is available:

-n Do not print the trailing newline character. This may also be achieved by appending '\c' to the end of the string, as is done by iBCS2 compatible systems. Note that this option as well as the effect of '\c' are implementation-defined in IEEE Std 1003.1-2001 ("POSIX.1") as amended by Cor. 1-2002. Applications aiming for maximum portability are strongly encouraged to use printf(1) to suppress the newline character.Some shells may provide a builtin **echo** command which is similar or identical to this utility. Most notably, the builtin **echo** in sh(1) does not accept the **-n** option. Consult the builtin(1) manual page.**EXIT STATUS**The **echo** utility exits 0 on success, and >0 if an error occurs.**SEE ALSO**

builtin(1), csh(1), printf(1), sh(1)

STANDARDSThe **echo** utility conforms to IEEE Std 1003.1-2001 ("POSIX.1") as amended by Cor. 1-2002.

macOS 15.5

(END)

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NAME
ls — list directory contents

SYNOPSIS
ls [-@ABCDEFGHIOPRSTUWabcdefghijklmnoprstuvwxyz1%,] [--color=when] [-D format] [file ...]

DESCRIPTION

For each operand that names a file of a type other than directory, ls displays its name as well as any requested, associated information. For each operand that names a file of type directory, ls displays the names of files contained within that directory, as well as any requested, associated information.

If no operands are given, the contents of the current directory are displayed. If more than one operand is given, non-directory operands are displayed first; directory and non-directory operands are sorted separately and in lexicographical order.

The following options are available:

- @ Display extended attribute keys and sizes in long (-l) output.
 - A Include directory entries whose names begin with a dot ('.') except for _ and ___. Automatically set for the super-user unless -I is specified.
 - B Force printing of non-printable characters (as defined by ctype(3) and current locale settings) in file names as \xxx, where xxx is the numeric value of the character in octal. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - C Force multi-column output; this is the default when output is to a terminal.
 - D format When printing in the long (-l) format, use format to format the date and time output. The argument format is a string used by strftime(3). Depending on the choice of format string, this may result in a different number of columns in the output. This option overrides the -T option. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - F Display a slash ('/') immediately after each pathname that is a directory, an asterisk (*) after each that is executable, an at sign ('@') after each symbolic link, an equals sign ('=') after each socket, a percent sign ('%') after each whiteout, and a vertical bar ('|') after each that is a FIFO.
 - G Enable colorized output. This option is equivalent to defining CLICOLOR or COLORTERM in the environment and setting --color=auto. (See below.) This functionality can be compiled out by removing the definition of COLORLS. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - H Symbolic links on the command line are followed. This option is assumed if none of the -F, -d, or -l options are specified.
 - I Prevent -A from being automatically set for the super-user. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - L Follow all symbolic links to final target and list the file or directory the link references rather than the link itself. This option cancels the -P option.
 - O Include the file flags in a long (-l) output. This option is incompatible with IEEE Std 1003.1-2008 ("POSIX.1"). See chflags(1) for a list of file flags and their meanings.
 - P If argument is a symbolic link, list the link itself rather than the object the link references. This option cancels the -H and -L options.
 - R Recursively list subdirectories encountered.
 - S Sort by size (largest file first) before sorting the operands in lexicographical order.
 - T When printing in the long (-l) format, display complete time information for the file, including month, day, hour, minute, second, and year. The -D option gives even more control over the output format. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - U Use time when file was created for sorting or printing. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - W Display whiteouts when scanning directories. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - X When listing recursively, do not descend into directories that would cross file system boundaries. More specifically, this option will prevent descending into directories that have a different device number.
 - a Include directory entries whose names begin with a dot ('.').
 - b As -B, but use C escape codes whenever possible. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
 - c Use time when file status was last changed for sorting or printing.
- color=when
Output colored escape sequences based on when, which may be set to either **always**, **auto**, or **never**.
always will make ls always output color. If TERM is unset or set to an invalid terminal, then ls will fall back to explicit ANSI escape sequences without the help of termcap(5). **always** is the default if --color is specified without an argument.
auto will make ls output escape sequences based on termcap(5), but only if stdout is a tty and either the -G flag is specified or the COLORTERM environment variable is set and not empty.

PID	COMMAND	%CPU	TIME	#TH	#WQ	#PORT	MEM	PURG	CMPRS	PGRP	PPID	STATE	BOOSTS	%CPU_ME	%CPU_OTHRS	UID	FAULTS	COW	MSGSENT	MSGRECV	SYSBSD	SYSMACH	CSW	PAGEINS	IDLEW	POWER
394	WindowServer	32.5	03:38:39	19/1	5	3177	746M-	419M+	114M	394	1	running	*0[1]	0.11469	0.60758	88	28874663+	248555	96237474+	106138713+	190746681+	402040410+	85189421+	3741	2040641+	34.8
51542	top	9.7	00:01.62	1/1	0	30	10M	0B	0B	51542	51343	running	*0[1]	0.00000	0.00000	0	16783+	104	595482+	297754+	79660+	405910+	1007+	2	1	9.7
0	kernel_task	8.1	95:47.21	545/8	0	0	20M	0B	0B	0	0	running	[0][0]	0.00000	0.00000	0	124778	0	129368771+	84667514+	0	0	598703593+	10	16453001+	0.0
602	AXVisualSupp	7.7	22:16.97	12	4	433-	53M-	3152K	23M	602	1	sleeping	*0[18572]	0.27724	0.00000	501	1074330+	354	26749521+	4716520+	18940984+	58438905+	11025705+	1155	218321+	7.8
51544	screenCaptur	6.0	00:00.32	6	3	211	9586K+	752K	0B	594	594	sleeping	*0[310+]	1.14826	0.00000	501	3656+	148	2908+	678+	2252+	7604+	2732+	43	0	6.0
684	duetexpertd	2.8	08:52.25	5	4	403+	14M+	1520K	3792K	684	1	sleeping	[0][2526]	0.00000	2.66163	501	315204+	422	130682+	444338+	5742383+	4343097+	1645395+	48063	799+	2.8
587	WindowManage	2.1	06:08.94	5	2	286	24M+	0B	6048K-	587	1	sleeping	*0[22210+]	0.00382	0.91209	501	220598+	241	901695+	326566+	1443031+	2852406+	781633+	489	1016	2.1
371	locationd	1.7	11:50.59	8	5	323	10M	112K	2816K	371	1	sleeping	*0[48122+]	0.00000	1.55930	205	131771	245	814957+	776897+	9187161+	2492956+	3409520+	35534	28871	1.7
363	opendirector	1.2	06:08.49	8	7	2196	13M	128K	5088K	363	1	sleeping	*0[1]	0.00000	1.02321	0	355402+	166	733275+	626035+	19535507+	1690787+	5317888+	20246	469	1.2
28260	Music	0.8	20:01.86	23	3	1174-	335M-	0B	230M	28260	1	sleeping	*384[12491]	0.00000	0.00000	501	576428	942	1216522	3198474+	3657944+	38860935+	6364449+	3955	400700+	1.4
51545	screenCaptur	0.6	00:00.08	5	3	176	9250K	0B	0B	51545	1	sleeping	*0[47+]	0.00000	0.23617	501	2174+	231	829+	256+	2285+	1997+	682+	48	2	0.6
51341	Terminal	0.6	00:11.36	11	4	449-	106M-	111M	0B	51341	1	sleeping	*0[231+]	0.02920	0.00775	501	156885+	450	97130+	19290+	249862+	219560+	64937+	314	454+	0.7
554	com.apple.Dr	0.6	23:25.38	8	6	1462	31M	0B	2992K	554	1	sleeping	[0][1]	0.00000	0.10094	270	2397240+	85	8742933+	5647336+	34435711+	19065054+	21600102+	716	2539626+	1.0
432	airportd	0.5	19:12.00	9	7	372+	17M	0B	3440K	432	1	sleeping	*34910[1]	0.22309	0.00000	0	2743137+	236	6839653+	3332278+	37798962+	8999423+	10446768+	967	6684	0.5
723	BiomeAgent	0.4	02:47.43	2	1	238-	9665K-	272K	2736K	723	1	sleeping	*0[70924]	0.00000	0.45599	501	183670+	319	218090+	237411+	5003936+	738441+	707825+	42539	216	0.4
324	logd	0.3	09:18.19	4	3	2363	16M	0B	14M	324	1	sleeping	*0[1]	0.00000	0.00000	0	716769	121	3291050+	3669244+	16685493+	3588639+	6271845+	469347	239	0.3
51516	com.apple.We	0.2	00:20.83	4	1	75	156M	1088K	0B	51516	1	sleeping	[0][1023]	0.00000	0.00000	501	43261	279	7632	5845+	63707+	76127+	42980+	148	124+	0.3
595	Finder	0.2	04:19.13	9	4	866-	197M-	2208K	107M	595	1	sleeping	*1[47620]	0.00000	0.00000	501	1922999+	2666	2553037+	784950+	5173519+	6194706+	2058693+	5541	3984	0.2
389	corebrightne	0.2	03:08.39	2	1	138	4481K	0B	1408K	389	1	sleeping	*0[1]	0.14996	0.00000	0	411153+	172	651553+	522683+	6630278+	1344752+	1683387+	463	20214	0.2
337	powerd	0.1	01:58.14	3	2	160	5553K	0B	1040K	337	1	sleeping	*0[1]	0.00000	0.10694	0	487252+	167	1312385+	842465+	3773094+	2402206+	1205253+	138	2739	0.1
39601	PerfPowerSer	0.1	04:24.76	6	3	543	17M	432K	4560K	39601	1	sleeping	[0][6022]	0.96406	0.00000	0	55698	269	1796689+	1161347+	3815269+	3835381+	2646431+	108	2220	0.1
29140	com.apple.Am	0.1	01:17.01	3	1	75	4065K	0B	1984K	29140	1	sleeping	*1[1]	0.14833	0.00000	0	7067	152	450912+	252024+	3851899+	1151055+	817370+	124	57	0.1
328	fseventsdsd	0.1	06:18.23	13	1	175	4833K	0B	880K	328	1	sleeping	*0[1]	0.00000	0.00000	0	1122089+	118	1863489+	668589+	21036846+	3433217+	2177747+	33	53289	0.1
51479	com.apple.We	0.1	00:04.29	6	1	106	19M	9632K	0B	51479	1	sleeping	*0[170]	0.00000	0.00000	501	16868	224	27097+	14443	161548+	110972	53020+	1897	532	0.1
51480	com.apple.We	0.1	00:06.54	13	5	250	18M	747M	0B	51480	1	sleeping	*0[490]	0.00000	0.00000	501	9942	225	83055+	38877+	128150+	111182+	84980+	8	1098+	0.1
437	symptomsd	0.0	01:10.34	4	3	206	7233K	80K	2560K	437	1	sleeping	*0[20437+]	0.00000	0.08801	24	40357	186	67042+	40700+	3083171+	219450+	642487+	503	168	0.0
536	audioclocksy	0.0	01:07.39	3	2	54	5329K	0B	3232K	536	1	sleeping	*0[1]	0.00000	0.00000	0	5577	117	136187	702744+	1915158+	1366223+	1307448+	21	262	0.0
518	mds_stores	0.0	09:38.32	7	5	139	37M	0B	9168K	518	1	sleeping	*0[1]	0.00000	0.08777	0	2750945+	382	463573	556775+	16719462+	1587778+	3977642+	30735	2087	0.0
695	Notification	0.0	18:43.85	8	6	440-	74M-	20M	18M	695	1	sleeping	*0[16432]	0.0												