

```
kiit@puter:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos new.txt thinclient_drives
kiit@puter:~$ df
Filesystem      1K-blocks          Used Available Use% Mounted on
none            3896480             4    3896476   1% /mnt/wsl
drivers         498799612 420884312 77915300 85% /usr/lib/wsl/drivers
none           3896480              0    3896480   0% /usr/lib/wsl/lib
/dev/sdc        263112772 2494740 247179876   1% /
none           3896480             128    3896352   1% /mnt/wslg
rootfs          3893236            1896    3891340   1% /init
none           3893264              0    3893264   0% /dev
none           3896480              0    3896480   0% /run
none           3896480              0    3896480   0% /run/lock
none           3896480              0    3896480   0% /run/shm
none           3896480              0    3896480   0% /run/user
tmpfs           3896480              0    3896480   0% /sys/fs/cgroup
none           3896480             72    3896408   1% /mnt/wslg/versions.txt
none           3896480             72    3896408   1% /mnt/wslg/doc
drvfs           498799612 420884312 77915300 85% /mnt/c
kiit@puter:~$ mkdir new
kiit@puter:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos new new.txt thinclient_drives
kiit@puter:~$ cd new
kiit@puter:~/new$ pwd
/home/kiit/new
kiit@puter:~/new$ cd ..
kiit@puter:~$ pwd
/home/kiit
kiit@puter:~$ nano text.txt
kiit@puter:~$ cat nano.txt
cat: nano.txt: No such file or directory
kiit@puter:~$ cat text.txt
hello
kiit@puter:~$ rm text.txt
kiit@puter:~$ cat text.txt
cat: text.txt: No such file or directory
kiit@puter:~$ nano newfile.zip
kiit@puter:~$ cat newfile.zip
what
kiit@puter:~$ cd man
-bash: cd: man: No such file or directory
kiit@puter:~$ man cd
kiit@puter:~$ 
kiit@puter:~$ nano file1.txt
kiit@puter:~$ cat file1.txt
bbbbbbbbbbbbbbbbbb
kiit@puter:~$ nano file2.txt
kiit@puter:~$ cpy file1.txt file2.txt
```

```
kiit@puter:~$ cp file1.txt file2.txt
kiit@puter:~$ cat file2.txt
bbbbbbbbbbbbbbbbbb
kiit@puter:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos file1.txt file2.txt new new.txt newfile.zip thinclient_drives
kiit@puter:~$ mv newfile.zip oldfile.txt
kiit@puter:~$ cat oldfile.txt
cat: oldfile.txt: No such file or directory
kiit@puter:~$ cat oldfile.txt
what
kiit@puter:~$ ls
```

Command 'car' not found, but can be installed with:

```
kali@kali:~$ cat file1.txt  
br  
skibidi  
  
kali@kali:~$ df -m
```

Filesystem	1M-blocks	Used	Available	Use%	Mounted on
none	3806	1	3806	1%	/mnt/wsl
drivers	487109	411350	75760	85%	/usr/lib/wsl/drivers
none	3806	0	3806	0%	/usr/lib/wsl/lib
/dev/sdc	256947	2457	241367	2%	/
none	3806	1	3806	1%	/mnt/wslg
rootfs	3802	2	3801	1%	/init
none	3803	0	3803	0%	/dev
none	3806	1	3806	1%	/run
none	3806	0	3806	0%	/run/lock
none	3806	0	3806	0%	/run/shm
none	3806	0	3806	0%	/run/user
tmpfs	3806	0	3806	0%	/sys/fs/cgroup
none	3806	1	3806	1%	/mnt/wslg/versions.txt
none	3806	1	3806	1%	/mnt/wslg/doc
drvfs	487109	411350	75760	85%	/mnt/c

```
kali@kali:~$ zip file1.txt
```

```
sudo apt install zip
```

```

kilit@puter:~$ lshw
WARNING: you should run this program as super-user.
puter
  description: Computer
  width: 64 bits
  capabilities: smp vsyscall32
*-core
  description: Motherboard
  physical id: 0
*-memory
  description: System memory
  physical id: 0
  size: 7936MiB
*-cpu
  product: AMD Ryzen 7 5700U with Radeon Graphics
  vendor: Advanced Micro Devices [AMD]
  physical id: 1
  bus info: cpu@0
  width: 64 bits
  capabilities: fpu fpu_exception wp vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp x86-64 constant tsc rep_good nopl tsc_reliable nopl
p_tsc cpuid extd_apicid pni pclmulqdq ssse3 fma cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx f16c rdrand hypervisor lahf_lm cmp_legacy cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw topoext ssbd ibrs ibpb stibp vmmcall fsgsbase b
1 avx2 smep bmi2 rdseed adx smap clflushopt clwb sha_ni xsaveopt xsavec xgetbv1 xsaves clzero xsaveerptr virt_ssbd arat umip rdpid
*-generic
  description: System peripheral
  product: Red Hat, Inc.
  vendor: Red Hat, Inc.
  physical id: 2
  bus info: pci@2563:00:00.0
  version: 01
  width: 64 bits
  clock: 33MHz
  capabilities: bus_master cap_list
  configuration: driver=virtio-pci latency=64
  resources: iomemory:e0-df iomemory:e0-df iomemory:c0-bf irq:0 memory:e0000000-e0000fff memory:e0001000-e0001fff memory:c0000000-dfffffff
*-virtio2 UNCLAIMED
  description: Virtual I/O device
  physical id: 0
  bus info: virtio@2
  configuration: driver=virtiofs
*-scsi:0
  description: SCSI storage controller
  product: Virtio console
  vendor: Red Hat, Inc.
  physical id: 3
  bus info: pci@315a:00:00.0
  version: 01
  width: 64 bits
  clock: 33MHz
  capabilities: scsi bus_master cap_list
  configuration: driver=virtio-pci latency=64
  resources: iomemory:90-8f iomemory:90-8f iomemory:90-8f irq:0 memory:9ffe00000-9ffe00fff memory:9ffe01000-9ffe01fff memory:9ffe02000-9ffe02fff
*-virtio0 UNCLAIMED
  description: Virtual I/O device
  physical id: 0
  bus info: virtio@0
  configuration: driver=virtio_console

```

```
kiit@puter:~$ lshw -C network
WARNING: you should run this program as super-user.
*-network:0 DISABLED
  description: Ethernet interface
  physical id: 1
  logical name: bond0
  serial: 4a:86:33:bb:be:65
  capabilities: ethernet physical
  configuration: autonegotiation=off broadcast=yes driver=bonding driverversion=5.15.79.1-microsoft-standard-WS firmware=2 link=no master=yes multicast=yes
*-network:1 DISABLED
  description: Ethernet interface
  physical id: 2
  logical name: dummy0
  serial: 1a:2e:36:05:19:bb
  capabilities: ethernet physical
  configuration: broadcast=yes driver=dummy driverversion=5.15.79.1-microsoft-standard-WS
*-network:2
  description: Ethernet interface
  physical id: 3
  logical name: eth0
  serial: 00:15:5d:91:3c:14
  size: 10Gbit/s
  capabilities: ethernet physical
  configuration: autonegotiation=off broadcast=yes driver=hv_netvsc driverversion=5.15.79.1-microsoft-standard-WS duplex=full firmware=N/A ip=172.20.223.188 link=yes multicast=yes speed=10Gbit/s
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
```

```
kali@kali:~$ whoami  
kali  
kali@kali:~$ uname -a  
Linux kali 5.0.0-9-amd64 SMP Debian 5.0.8-1kali1 (2020-10-27) x86_64 GNU/Linux  
kali@kali:~$ cmp file1.txt file2.txt  
cmp: EOF on file2.txt after byte 19, line 1  
kali@kali:~$ diff file1.txt file2.txt  
2d1  
< skibidi  
kali@kali:~$ comm file1.txt file2.txt  
          brrrrrrrrrrrrrrrrrrrrr  
  
skibidi  
kali@kali:~$ sort file1.txt  
brrrrrrrrrrrrrrrrrrrrr  
skibidi  
kali@kali:~$ sort file2.txt  
brrrrrrrrrrrrrrrrrrrrr  
kali@kali:~$ ifconfig  
  
Command 'ifconfig' not found, but can be installed with:  
  
sudo apt install net-tools  
  
kali@kali:~$ wget https://www.google.com/url?sa=i&url=https%3A%2F%2Fcommons.wikimedia.org%2Fwiki%2Ffile%3AGoogle_%2522G%2522_Logo.svg&psig=AOvVaw0VqsKYwByH4Ni7b0ZfucQS&ust=1673596022390000&source=images&cd=vfe&ved=0CBAQjRxxqFoTCJ0FWCFQAAAAAdAAABAD  
[1] 497  
[2] 498  
[3] 499  
[4] 500  
[5] 501  
[6] 502  
[2]- Done url=https%3A%2F%2Fcommons.wikimedia.org%2Fwiki%2Ffile%3AGoogle_%2522G%2522_Logo.svg  
[3]- Done psig=AOvVaw0VqsKYwByH4Ni7b0ZfucQS  
[4]- Done ust=1673596022390000  
[5]- Done source=images  
kali@kali:~$  
Redirecting output to 'wget-log'.  
  
[1]- Done wget https://www.google.com/url?sa=i  
[6]+ Done cd=vfe  
kali@kali:~$ ls  
. Desktop Documents Downloads Music Pictures Public Templates Videos file1.txt file2.txt new new.txt newfile.txt oldfile.txt thinclient_drives 'url?sa=i' wget-log  
kali@kali:~$ cal july 2023  
      July 2023  
Su Mo Tu We Th Fr Sa  
        1  
 2  3  4  5  6  7  8  
 9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 31  
kali@kali:~$ whereis sudo  
sudo: /usr/bin/sudo /usr/lib/sudo /usr/share/man/man8/sudo.8.gz  
kali@kali:~$ who  
kali@kali:~$ who  
kali@kali:~$ whoami  
kali  
kali@kali:~$ uname -a  
Linux
```



```

kiit@puter:~$ awk
Usage: awk [POSIX or GNU style options] -f progfile [--] file ...
Usage: awk [POSIX or GNU style options] [--] 'program' file ...
POSIX options:          GNU long options: (standard)
    -f progfile          --file=progfile
    -F fs                --field-separator=fs
    -v var=val           --assign=var=val
Short options:          GNU long options: (extensions)
    -b                   --characters-as-bytes
    -c                   --traditional
    -C                   --copyright
    -d[file]             --dump-variables[=file]
    -D[file]             --debug[=file]
    -e 'program-text'    --source='program-text'
    -E file              --exec=file
    -g                   --gen-pot
    -h                   --help
    -i includefile       --include=includefile
    -l library           --load=library
    -L[fatal|invalid|no-ext] --lint[=fatal|invalid|no-ext]
    -M                   --bignum
    -N                   --use-lc-numeric
    -n                   --non-decimal-data
    -o[file]             --pretty-print[=file]
    -O                   --optimize
    -p[file]             --profile[=file]
    -P                   --posix
    -r                   --re-interval
    -s                   --no-optimize
    -S                   --sandbox
    -t                   --lint-old
    -V                   --version

```

To report bugs, see node `Bugs' in `gawk.info' which is section `Reporting Problems and Bugs' in the printed version. This same information may be found at [https://www.gnu.org/software/gawk/manual/html\\_node/Bugs.html](https://www.gnu.org/software/gawk/manual/html_node/Bugs.html). PLEASE do NOT try to report bugs by posting in comp.lang.awk, or by using a web forum such as Stack Overflow.

gawk is a pattern scanning and processing language. By default it reads standard input and writes standard output.

Examples:

```

gawk '{ sum += $1 }; END { print sum }' file
gawk -F: '{ print $1 }' /etc/passwd

```