

```
kushal@Mysekai:~$ ls
1 abc c          file    text.sh  vi.sh
2 abcd d         fl      textcp1.txt vi2.sh
a b  demoemptyfile names.txt user1    vi3.sh
ab bc familytree  snap    user2
kushal@Mysekai:~$ mkdir LinuxAssignment
kushal@Mysekai:~$ cd LinuxAssignment
kushal@Mysekai:~/LinuxAssignment$ touch file1.txt
kushal@Mysekai:~/LinuxAssignment$ touch docs
kushal@Mysekai:~/LinuxAssignment$ ls
docs file1.txt
kushal@Mysekai:~/LinuxAssignment$ cat >> file1.txt
inside file1.txt
kushal@Mysekai:~/LinuxAssignment$ cat file.txt
cat: file.txt: No such file or directory
kushal@Mysekai:~/LinuxAssignment$ file1.txt
file1.txt: command not found
kushal@Mysekai:~/LinuxAssignment$ cat file1.txt
inside file1.txt
kushal@Mysekai:~/LinuxAssignment$ cp file1.txt docs
kushal@Mysekai:~/LinuxAssignment$ cat docs
inside file1.txt
kushal@Mysekai:~/LinuxAssignment$ mkdir docs
mkdir: cannot create directory 'docs': File exists
kushal@Mysekai:~/LinuxAssignment$ rm docs.txt
rm: cannot remove 'docs.txt': No such file or directory
kushal@Mysekai:~/LinuxAssignment$ rm docs
kushal@Mysekai:~/LinuxAssignment$ ls
file1.txt
kushal@Mysekai:~/LinuxAssignment$ mkdir docs
kushal@Mysekai:~/LinuxAssignment$ ls
docs file1.txt
kushal@Mysekai:~/LinuxAssignment$ cp file1.txt docs
kushal@Mysekai:~/LinuxAssignment$ cat docs
cat: docs: Is a directory
kushal@Mysekai:~/LinuxAssignment$ cd docs
kushal@Mysekai:~/LinuxAssignment/docs$ ls
file1.txt
kushal@Mysekai:~/LinuxAssignment/docs$ mv file1.txt file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ ls
file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-- 1 kushal kushal 17 Mar  7 17:55 file2.txt
```

```
kushal@Mysekai:~/LinuxAssignment/docs$ chmod 744 file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 kushal kushal 17 Mar  7 17:55 file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ sudo chown kushal file2.txt
[sudo] password for kushal:
kushal@Mysekai:~/LinuxAssignment/docs$ ls *.txt
file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ grep -i file2.txt
grep -inside file2.txt
grep -inside file2.txt
kushal@Mysekai:~/LinuxAssignment/docs$ cat file2.txt
inside file1.txt
kushal@Mysekai:~/LinuxAssignment/docs$ cat >> file2.txt
this is second line of my file
here's the third para
kushal@Mysekai:~/LinuxAssignment/docs$ cat file2.txt
inside file1.txt
this is second line of my file
here's the third para
kushal@Mysekai:~/LinuxAssignment/docs$ grep -inside file2.txt
grep: invalid argument 'e' for '--directories'
Valid arguments are:
- 'read'
- 'recurse'
- 'skip'
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
kushal@Mysekai:~/LinuxAssignment/docs$ man grep
kushal@Mysekai:~/LinuxAssignment/docs$ grep inside file2.txt
inside file1.txt
kushal@Mysekai:~/LinuxAssignment/docs$ date-u
date-u: command not found
kushal@Mysekai:~/LinuxAssignment/docs$ date -u
Thu Mar  7 13:05:18 UTC 2024
kushal@Mysekai:~/LinuxAssignment/docs$ cal
    March 2024
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
```

```
kushal@Mysekai:~/LinuxAssignment/docs$ ifconfig
Command 'ifconfig' not found, but can be installed with:
sudo apt install net-tools
kushal@Mysekai:~/LinuxAssignment/docs$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group
default qlen 1000
    link/ether 00:15:5d:3d:44:63 brd ff:ff:ff:ff:ff:ff
    inet 192.168.116.163/20 brd 192.168.127.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe3d:4463/64 scope link
        valid_lft forever preferred_lft forever
kushal@Mysekai:~/LinuxAssignment/docs$ kushal -l
kushal: command not found
kushal@Mysekai:~/LinuxAssignment/docs$ hostname -l
192.168.116.163
kushal@Mysekai:~/LinuxAssignment/docs$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=52 time=20.4 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=52 time=23.0 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=52 time=18.5 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=52 time=20.1 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=52 time=19.2 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=52 time=19.8 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=52 time=31.2 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=52 time=26.9 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=52 time=27.4 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=52 time=18.2 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=52 time=21.0 ms
^C
--- 8.8.8.8 ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10015ms
rtt min/avg/max/mdev = 18.210/22.340/31.244/4.095 ms
kushal@Mysekai:~/LinuxAssignment/docs$ zip -r myzipfile.zip d
ocs
Command 'zip' not found, but can be installed with:
sudo apt install zip
kushal@Mysekai:~/LinuxAssignment/docs$ sudo apt install zip
```

```
[sudo] password for kushal:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  unzip
The following NEW packages will be installed:
  unzip zip
0 upgraded, 2 newly installed, 0 to remove and 30 not upgraded.
Need to get 350 kB of archives.
After this operation, 930 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64
6.0-26ubuntu3.2 [175 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 zip amd64 3.0-12build2 [176 kB]
Fetched 350 kB in 5s (72.9 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 24225 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.2_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.2) ...
Selecting previously unselected package zip.
Preparing to unpack .../zip_3.0-12build2_amd64.deb ...
Unpacking zip (3.0-12build2) ...
Setting up unzip (6.0-26ubuntu3.2) ...
Setting up zip (3.0-12build2) ...
Processing triggers for man-db (2.10.2-1) ...
kushal@Mysekai:~/LinuxAssignment/docs$ zip -r myzipfile.zip docs
zip warning: name not matched: docs

zip error: Nothing to do! (try: zip -r myzipfile.zip . -i docs)
kushal@Mysekai:~/LinuxAssignment/docs$ cd..
cd..: command not found
kushal@Mysekai:~/LinuxAssignment/docs$ cd ..
kushal@Mysekai:~/LinuxAssignment$ zip myzipfile.zip docs
  adding: docs/ (stored 0%)
kushal@Mysekai:~/LinuxAssignment$ zip -r myzipfile.zip docs
updating: docs/ (stored 0%)
  adding: docs/file2.txt (deflated 6%)
kushal@Mysekai:~/LinuxAssignment$ zip -r myzipfile.zip docs
updating: docs/ (stored 0%)
updating: docs/file2.txt (deflated 6%)
kushal@Mysekai:~/LinuxAssignment$ touch file3.txt
kushal@Mysekai:~/LinuxAssignment$ cat >> inside file 3 trash zip
cat: file: No such file or directory
```

```
cat: 3: No such file or directory
cat: trash: No such file or directory
cat: zip: No such file or directory
kushal@Mysekai:~/LinuxAssignment$ cat >> file3.txt
inside file 3 terash zip
kushal@Mysekai:~/LinuxAssignment$ ls
docs file1.txt file3.txt inside myzipfile.zip
kushal@Mysekai:~/LinuxAssignment$ zip my2zipfile.zip file3.txt
  adding: file3.txt (stored 0%)
kushal@Mysekai:~/LinuxAssignment$ zip -r my2zipfile.zip file3.txt
 updating: file3.txt (stored 0%)
kushal@Mysekai:~/LinuxAssignment$ mkdir unzipdirectory
kushal@Mysekai:~/LinuxAssignment$ unzip myzipfile.zip unzipdirectory
Archive:  myzipfile.zip
caution: filename not matched:  unzipdirectory
kushal@Mysekai:~/LinuxAssignment$ ls
docs file1.txt file3.txt inside my2zipfile.zip myzipfile.zip unzipdirectory
kushal@Mysekai:~/LinuxAssignment$ unzip myzipfile.zip -d unzipdirectory
Archive:  myzipfile.zip
  creating: unzipdirectory/docs/
  inflating: unzipdirectory/docs/file2.txt
kushal@Mysekai:~/LinuxAssignment$ cd unzipdirectory
kushal@Mysekai:~/LinuxAssignment/unzipdirectory$ ls
docs
kushal@Mysekai:~/LinuxAssignment/unzipdirectory$ cd docs
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ ls
file2.txt
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ vi file1.txt
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat file1.txt
```

inside file1 for inserting my text

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ tr my your file1.txt
tr: extra operand 'file1.txt'
Try 'tr --help' for more information.
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sed -i'my/your' file1.txt
sed: -e expression #1, char 1: unknown command: `f'
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ vi file1.txt
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sed -i 's/my/your/g' file1.txt
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat file1.txt
```

inside file1 for inserting your text

second line

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ vi file1.txt
```

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat >> file1.txt
```

To copy text from the terminal: Select the text using the mouse, it will be automatically copied to the clipboard.

To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

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To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat file1.txt
```

inside file1 for inserting your text

second line

third line

To copy text from the terminal: Select the text using the mouse, it will be automatically copied to the clipboard.

To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

To copy text from the terminal: Select the text using the mouse, it will be automatically copied to the clipboard.

To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ touch duplicate.txt
```

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat >> duplicate.txt
```

car car jeep bike

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat duplicate.txt
```

car car jeep bike

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sort -u duplicate.txt
```

car car jeep bike

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sort duplicate.txt | uniq
```

car car jeep bike

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat duplicate.txt
```

car car jeep bike

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat file1.txt
```

inside file1 for inserting your text

second line

third line

To copy text from the terminal: Select the text using the mouse, it will be automatically copied to the clipboard.

To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

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To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sort -u file1.txt
```

To copy text from the terminal: Select the text using the mouse, it will be automatically copied to the clipboard.

To paste text into the terminal: Right-click in the terminal window and choose "Paste" from the context menu, or press Shift + Insert.

inside file1 for inserting your text

second line

third line

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ touch fruit.txt
```

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat >> fruit.txt
```

apple

apple

orange

orange

banana

strawberry

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ cat fruit.txt
```

apple

apple

orange

orange

banana

strawberry

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$ sort fruit.txt | uniq -c
```

2 apple

1 banana

2 orange

1 starwberry

```
kushal@Mysekai:~/LinuxAssignment/unzipdirectory/docs$
```

New commands which i learned from assignment are

FOR COPYING A FILE TO A DIRECTORY

cp filename filename directory name

FOR RENAMING OR MOVING

mv - filename1 filename 2

FOR CHANGING THE PERMISSION OF OWNER TO A PARTICULAR USER

Sudo chown user name file name

IP ADDRESS

hostname -I

FOR MAKING A CONNECTION WITH A SERVER

ping(IP address) in mine ping(8.8.8.8)

FOR FILE COMPRESSION TO ZIP FILE

Zip -r myzipfile name .zip directory to compress

FOR EXTRACTING / UNZIPPING

unzip zipfilename -d directoryname

FOR REPLACING A STRING WITH ANOTHER STRING IN A FILE

sed -i 's/string1/string2/g' filename

FOR REMOVING DUPLICATE LINES

sort -u filename basically sort all lines so duplicate are removed

FOR REMOVING DUPLICATE STRINGS AND MAINTAINING A COUNTER

sort filename | uniq-c