# Concepts of Operating System Assignment 1

## Name – Amar Khare PG-DAC

Problem 1: Read the instructions carefully and answer accordingly. If there is any need to insert some data then do that as well.

- a) Navigate and List:
  - a. Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

```
X
 /home
                                                                               $ 1s
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd/home
-bash: cd/home: No such file or directory
Amar Khare@LAPTOP-VFKB66T4 ~
-bash: cd: home/: No such file or directory
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd --
Amar Khare@LAPTOP-VFKB66T4 ~
$ pwd
/home/Amar Khare
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd --
Amar Khare@LAPTOP-VFKB66T4 ~
$ pwd
/home/Amar Khare *
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd
Amar Khare@LAPTOP-VFKB66T4 ~
/home/Amar Khare
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /home
$ 1s
'Amar Khare'
Amar Khare@LAPTOP-VFKB66T4 /home
$ mkdir LinuxAssignment
Amar Khare@LAPTOP-VFKB66T4 /home
$ 1s
'Amar Khare'
               LinuxAssignment
Amar Khare@LAPTOP-VFKB66T4 /home
```

#### b) File Management:

a. Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its contents.

```
Amar Khare@LAPTOP-VFKB66T4 /home

S cd LinuxAssignment/

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment

S touch file1.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment

S cat file1.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment

S cat file1.txt
```

c) Directory Management:

a. Create a new directory named "docs" inside the "LinuxAssignment" directory.

```
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ mkdir docs

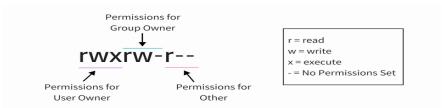
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ |
```

- d) Copy and Move Files:
  - a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".
  - > Searched command to copy and paste > cp source file destination.
  - > Searched for To rename > mv prevname newname.

```
Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ mkdir docs
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ man copy
No manual entry for copy
 Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ man c
No manual entry for c
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
docs file1.txt
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment cp file1.txt docs/
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
docs file1.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment cd docs/
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls
file1.txt
 Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ man rename
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
mv file1.txt file2.txt
 Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
 ile2.txt
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
```

#### e) Permissions and Ownership:

- a. Change the permissions of "file2.txt" to allow read, write, and execute permissions for the owner and only read permissions for others. Then, change the owner of "file2.txt" to the current user.
- ➤ Listing permission > ls -l
- ➤ Changing permission chomd u=rws,o=r file2.txt
- ➤ Before -rw-r--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
- After -rwxr--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
- ➤ The first character = '-', which means it's a file 'd', which means it's a directory.
- $\triangleright$  The next nine characters = (rw-r-r-) show the security
- The next column shows the owner of the file.
- The next column shows the group owner of the file. (which has special access to these files)
- The next column shows the size of the file in bytes.
- The next column shows the date and time the file was last modified.



```
/home/LinuxAssignment/docs
                                                                                             Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ 1s -1
total 0
 rw-r--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
Amar Khare@LAPTOP-VFKB66T4 <mark>/home/LinuxAssignment/docs</mark>
$ stat
stat: missing operand
Try 'stat --help' for more information.
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls -l file2.txt
-rw-r--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
 Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
No manual entry for -1
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ man 1
No manual entry for l
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ^C
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ^C
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ chmod u=rwx, o=r file2.txt
chmod: invalid mode: 'u=rwx,'
Try 'chmod --help' for more information.
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ chmod u=rwx,o=r file2.txt
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls -l
total 0
 rwxr--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
  ar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ |
```

- ➤ whoami check the current user(who has logged in) Amar Khare
- $\triangleright$  ls l shows the owner name (who has created file) Amar Khare
- User is the one who has logged in currently. owner is the creator of the file/folder, which is shown when you do a "ls -l".

```
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ whoami
Amar Khare

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ man chown

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ chown Amar Khare file2.txt
chown: invalid user: 'Amar'

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ chown 'Amar khare' file2.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls -l
total 0
-rwxr--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls -l
total 0
-rwxr--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls -l
total 0
-rwxr--r-- 1 Amar Khare None 0 Feb 26 22:39 file2.txt
```

#### f) Final Checklist:

a. Finally, list the contents of the "LinuxAssignment" directory and the root directory to ensure that all operations were performed correctly.

```
X
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cd
Amar Khare@LAPTOP-VFKB66T4 ~
$ 1s
Amar Khare@LAPTOP-VFKB66T4 ~
$ man ls
Amar Khare@LAPTOP-VFKB66T4 ~
ls: cannot access 'a': No such file or directory
Amar Khare@LAPTOP-VFKB66T4 ~
-bash: la: command not found
Amar Khare@LAPTOP-VFKB66T4 ~
      .bash_history .bash_profile .bashrc .inputrc .lesshst .profile
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /home
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /
$ 1s
                                cygdrive
                                                1ib
Cygwin-Terminal.ico
                    Cygwin.ico
                                          etc
                                                      sbin
                                                            usr
Cygwin.bat
                                 dev
                                          home proc tmp
                                                            var
Amar Khare@LAPTOP-VFKB66T4 /
$ cd home/
Amar Khare@LAPTOP-VFKB66T4 /home
$ cd LinuxAssignment/
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ 1s
docs
     file1.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ man 1s
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
```

#### g) File Searching:

- a. Search for all files with the extension ".txt" in the current directory and its subdirectories.
- b. Display lines containing a specific word in a file (provide a file name and the specific word to search).
- Searching file = \$ find . -name "\*.txt"

```
E /
     Khare@LAPTOP-VFKB66T4
$ cd home/LinuxAssignment/docs/
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ emacs file2.txt
-bash: emacs: command not found
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ notepad file2.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ notepadfile2.txt
-bash: notepadfile2.txt: command not found
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ notepad file2.txt
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ cat file2.txt
hi
hello
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cd .
-bash: cd: ....: No such file or directory
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cd
     Khare@LAPTOP-VFKB66T4 ~
-bash: cd..: command not found
Amar Khare@LAPTOP-VFKB66T4 ~
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /home
$ cd ..
Amar Khare@LAPTOP-VFKB66T4 /
$ find . -name "*.txt"
./home/Amar Khare/file2.txt
./home/LinuxAssignment/docs/file2.txt
```

Searching and displaying : Grep hi file2.txt

```
Amar Khare@LAPTOP-VFKB66T4 /
$ cd home/LinuxAssignment/docs/

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ notepad file2.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ cat file2.txt
hi everyone !
how are you ?

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ man grep

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ grep hi file2.txt
hi everyone !

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ grey hi file2.txt
hi everyone !
```

#### h) System Information:

a. Display the current system date and time.

```
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs

$ date

Thu Feb 27 01:19:42 IST 2025

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs

$ |
```

#### i) Networking:

- a. Display the IP address of the system.
- b. Ping a remote server to check connectivity (provide a remote server address to ping). j)

A ping is a basic Internet command that allows a user to test and verify whether a given destination IP address exists and can accept requests in computer network administration. Ping is also used for diagnosis to confirm that the computer the user tries to reach is operational. Ping can be used with any operating system (OS) that supports networking, including the majority of embedded network administration software.

```
X
 man hostname
$ hostname -i
fe80::d995:a35f:f98d:a0ef%9 2401:4900:562f:cf66:1484:e4c9:176:8b75 2401:4900:562f:cf
66:973c:ec6b:13c4:3588 192.168.143.93
           Khare@LAPTOP-VFKB66T4 ~
Usage: ping [-t] [-a] [-n count] [-l size] [-f] [-i TTL] [-v TOS]
[-r count] [-s count] [[-j host-list] | [-k host-list]]
[-w timeout] [-R] [-S srcaddr] [-c compartment] [-p]
[-4] [-6] target_name
Options:
                                                     Ping the specified host until stopped.
                                                    Ping the specified host until stopped.

To see statistics and continue - type Control-Break;

To stop - type Control-C.

Resolve addresses to hostnames.

Number of echo requests to send.

Send buffer size.

Set Don't Fragment flag in packet (IPv4-only).

Time To Live.

Type Of Service (IPv4-only. This setting has been deprecated and has no effect on the type of service field in the IP

Header).
         -n count
-l size
-f
                                                     Header)
                                                     Record route for count hops (IPv4-only).
                                                   Record route for count hops (IPV4-only).
Timestamp for count hops (IPV4-only).
Loose source route along host-list (IPV4-only).
Strict source route along host-list (IPV4-only).
Timeout in milliseconds to wait for each reply.
Use routing header to test reverse route also (IPV6-only).
Per RFC 5095 the use of this routing header has been deprecated. Some systems may drop echo requests if this header is used.
Source address to use.
Routing compartment identifier.
           -s count
-j host-list
-k host-list
                  timeout
           -S srcaddr
                 compartment Routing compartment identifier.
Ping a Hyper-V Network Virtualization provider address.
Force using IPv4.
           -р
-4
                                                     Force using IPv6.
 Amar Khare@LAPTOP-VFKB66T4 ~ ping 192.168.143.93
Pinging 192.168.143.93 with 32 bytes of data:
Reply from 192.168.143.93: bytes=32 time<1ms TTL=128
 Ping statistics for 192.168.143.93:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = Oms, Maximum = Oms, Average = Oms
```

# File Compression:

- a. Compress the "docs" directory into a zip file.
- b. Extract the contents of the zip file into a new directory.
- > Zip command was not working so used tar command
- Creating compresed directory :\$ tar -czvf docsarchive.tar.gz docs
  - -c: Create an archive.
  - o -z: Compress the archive with gzip.
  - -v: Display progress in the terminal while creating the archive, also known as "verbose" mode. The v is always optional in these commands, but it's helpful.
    - -f: Allows you to specify the filename of the archive.
  - -x : to extraxt
- Extracting files : \$ tar -xzvf docsarchive.tar.gz -C docs1/

```
/home/LinuxAssignment/docs1/docs
                                                                                                                                                          $ man zip
No manual entry for zip
 mar Khare@LAPTOP-VFKB66T4 ~
man tar
 mar Khare@LAPTOP-VFKB66T4 <mark>/home</mark>
5 cd LinuxAssignment/
 mar Khare@LAPTOP-VFKB66T4 /<mark>home/LinuxAssignment</mark>
tar -czvf docsarchive.tar.gz docs
docs/
docs/file2.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
docs docsarchive.tar.gz file1.txt
  mar Khare@LAPTOP-VFKB66T4 <mark>/home/LinuxAssignment</mark>
mkdir docs1
 amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
docs docs1 docsarchive.tar.gz file1.txt
        Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
                                                                       docsarchive.tar.gz
  mar Khare@LAPTOP-VFKB66T4 <mark>/home/LinuxAssignment cd docsl</mark>
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs1
$ tar -xzvf docsarchive.tar.gz
tar (child): docsarchive.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs1

$ tar -xzvf docsarchive.tar.gz -C /docs1

tar (child): docsarchive.tar.gz: Cannot open: No such file or directory

tar (child): Error is not recoverable: exiting now

tar: Child returned status 2

tar: Error is not recoverable: exiting now
        Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs1
```

```
/home/LinuxAssignment/docs1/docs
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment $ tar -xzvf docsarchive.tar.gz -C /docs1 tar: /docs1: Cannot open: No such file or directory tar: Error is not recoverable: exiting now
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
docs docs1 docsarchive.tar.gz file1.txt
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
 $ docs
  -bash: docs: command not found
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cd docs
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ ls
file2.txt
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
$ cd ..
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
 $ 1s
docs
                  docs1 docsarchive.tar.gz file1.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment

$ tar -xzvf docsarchive.tar.gz docs1/

tar: docs1: Not found in archive

tar: Exiting with failure status due to previous errors
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ man tar
  Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cat docsarchive.tar.gz
$ cat docsarchive.tar.g2

| March | M
               Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
 $ tar -xzvf docsarchive.tar.gz -C docs1/
docs/
docs/file2.txt
   $ cd docs1
```

### k) File Editing:

- a. Open the "file1.txt" file in a text editor and add some text to it.
- b. Replace a specific word in the "file1.txt" file with another word (provide the original word and the word to replace it with).

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
\$ cd..
-bash: cd..: command not found

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment/docs
\$ cd ..

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ ls
docs docsl docsarchive.tar.gz filel.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ cat filel.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ notepad filel.txt

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ cat filel.txt
hi everyone!
how are you?

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ man sed

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ sed -i 's/hi/hey/g' filel.txt

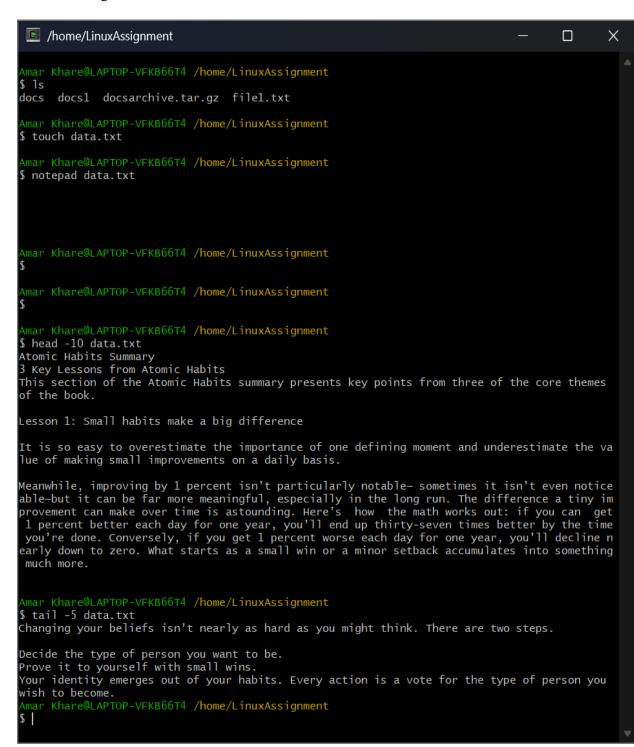
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ cat filel.txt
hey everyone!
how are you?

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ cat filel.txt
hey everyone!
how are you?

Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
\$ cat filel.txt
hey everyone!
how are you?

# Problem 2: Read the instructions carefully and answer accordingly. If there is any need to insert some data then do that as well.

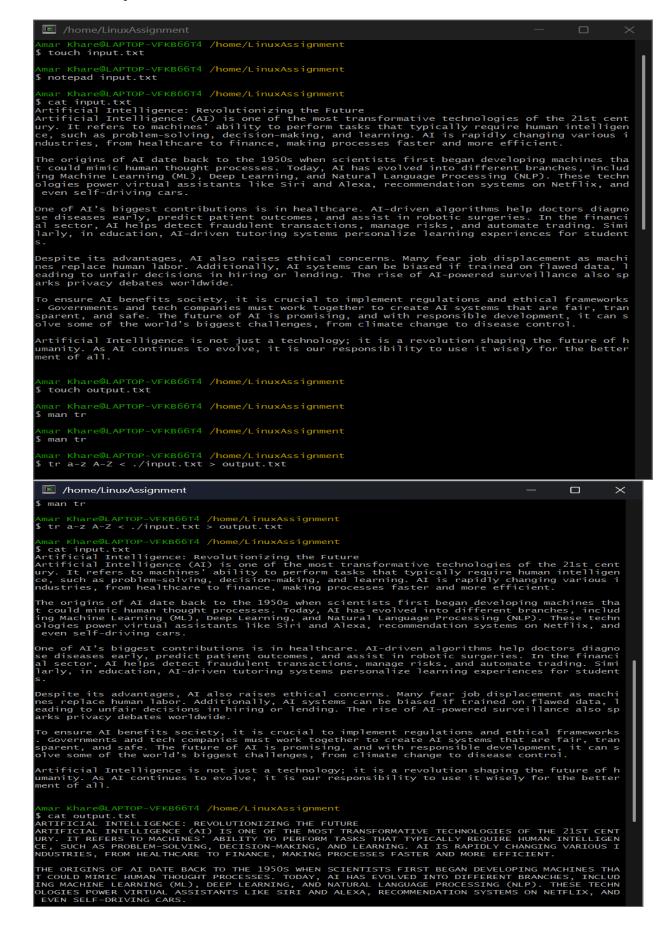
- a. Suppose you have a file named "data.txt" containing important information. Display the first 10 lines of this file to quickly glance at its contents using a command.
- b. Now, to check the end of the file for any recent additions, display the last 5 lines of "data.txt" using another command.



- c. In a file named "numbers.txt," there are a series of numbers. Display the first 15 lines of this file to analyze the initial data set.
- d. To focus on the last few numbers of the dataset, display the last 3 lines of "numbers.txt".

```
/home/LinuxAssignment
                                                                                                                      mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ touch number.txt
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ notepad number.txt
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
  head -15 number.txt
             5
17
31
47
67
                   19
37
53
71
89
107
     29
43
61
79
101
23
41
59
73
97
            83
103
                    131
151
173
109
137
157
      113
139
163
             127
149
167
      181
199
229
251
271
             191
211
233
257
277
                    193
223
239
                    263
281
      Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ tail -3 number.txt
347 349 353 359
367 373 379 383
            401 409
 mar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
```

e. Imagine you have a file named "input.txt" with text content. Use a command to translate all lowercase letters to uppercase in "input.txt" and save the modified text in a new file named "output.txt."



f. In a file named "duplicate.txt," there are several lines of text, some of which are duplicates. Use a command to display only the unique lines from "duplicate.txt."

```
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ 1s
data.txt docs docs1 docsarchive.tar.gz file1.txt input.txt number.txt output.txt
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ touch duplicate.txt
$ notepad duplicate.txt
$ uniq duplicate.txt
i love travelling.
i enjoy playing cricket.
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ duplicate.txt
-bash: duplicate.txt: command not found
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cat duplicate.txt
  love travelling.
i love travelling.
i enjoy playing cricket.
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
```

g. In a file named "fruit.txt," there is a list of fruits, but some fruits are repeated. Use a command to display each unique fruit along with the count of its occurrences in "fruit.txt.

➤ I had to sort it before printing no of unique values

```
×
 .mar Khare@LAPTOP-VFKB66T4 <mark>/home/LinuxAssignment</mark>
$ touch fruit.txt
$ notepad.txt
-bash: notepad.txt: command not found
    Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ notepad fruit.txt
    Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ cat fruit.txt
Apple
Orange
Mango
Apple
Orange
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
Amar Khareelm ...
$ uniq fruit.txt
Apple
orange
Mango
Apple
Orange
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
                             duplicate.txt fruit.txt number.txt
file1.txt input.txt output.txt
data.txt docs1
         docsarchive.tar.gz file1.txt
docs
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ uniq fruit.txt
Apple
Orange
Mango
Apple
Orange
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ notepad fruit.txt
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ uniq -c fruit.txt
1 Apple
1 Orange
     1 Mango
1 Apple
      1 Orange
     Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ sort fruit.txt
Apple
Apple
Mango
Orange
Orange
 Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
  uniq -c fruit.txt
1 Apple
1 Orange
       1 Mango
          Apple
        1 Orange
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ sort fruit.txt | uniq c
uniq: c: No such file or directory
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
$ sort fruit.txt | uniq -c
2 Apple
1 Mango
          Orange
          Orange
Amar Khare@LAPTOP-VFKB66T4 /home/LinuxAssignment
```