

### Problem 1:

- 1) 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.

```
Ans :cdac@LAPTOP-93TGEES8:~/Feb25$ pwd
/home/cdac/Feb25
cdac@LAPTOP-93TGEES8:~/Feb25$ cd
cdac@LAPTOP-93TGEES8:~$ pwd
/home/cdac
cdac@LAPTOP-93TGEES8:~$ ls
Feb25
cdac@LAPTOP-93TGEES8:~$
cdac@LAPTOP-93TGEES8:~$ mkdir LinuxAssignment
cdac@LAPTOP-93TGEES8:~$ pwd
/home/cdac
cdac@LAPTOP-93TGEES8:~$ cd LinuxAssignment/
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```



```
cdac@LAPTOP-93TGEES8:~/Feb25$ pwd
/home/cdac/Feb25
cdac@LAPTOP-93TGEES8:~/Feb25$ cd
cdac@LAPTOP-93TGEES8:~$ pwd
/home/cdac
cdac@LAPTOP-93TGEES8:~$ ls
Feb25
cdac@LAPTOP-93TGEES8:~$
cdac@LAPTOP-93TGEES8:~$ mkdir LinuxAssignment
cdac@LAPTOP-93TGEES8:~$ pwd
/home/cdac
cdac@LAPTOP-93TGEES8:~$ cd LinuxAssignment/
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 2) File Management: a. Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its contents.

```
Ans: cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat file1.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ls
file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~$ cd LinuxAssignment/
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ls
file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 3) Directory Management: a. Create a new directory named "docs" inside the "LinuxAssignment" directory.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ mkdir docs
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ mkdir docs
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 4) Copy and Move Files: a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".

Ans: cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$ cp file1.txt docs/file2.txt

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cp file1.txt docs/file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cd docs/
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ ls
file2.txt
```

- 5) 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.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ chmod 744 file2.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ ls -l file2.txt
```

```
-rwxr--r-- 1 cdac cdac 0 Feb 27 01:53 file2.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ chmod 744 file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ ls -l file2.txt
-rwxr--r-- 1 cdac cdac 0 Feb 27 01:53 file2.txt
```

chown \$(whoami) file2.txt : Changes the file owner to the current user.

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ chown $(whoami) file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ ls -l file2.txt
-rwxr--r-- 1 cdac cdac 0 Feb 27 01:53 file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$
```

#### 6) Final Checklist:

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

Ans: cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$ ls

docs file1.txt

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ls
docs file1.txt
```

Moving to root directory:

cdac@LAPTOP-93TGEES8:~\$ cd /

cdac@LAPTOP-93TGEES8:/\$ ls

bin boot etc init lib.usr-is-merged lost+found mnt proc run sbin.usr-is-merged srv tmp  
var

bin.usr-is-merged dev home lib lib64 media opt root sbin snap sys usr

cdac@LAPTOP-93TGEES8:/\$

```
bin boot etc init lib.usr-is-merged lost+found mnt proc run sbin.usr-is-merged srv tmp var
bin.usr-is-merged dev home lib lib64 media opt root sbin snap sys usr
cdac@LAPTOP-93TGEES8:/$
```

7) File Searching:

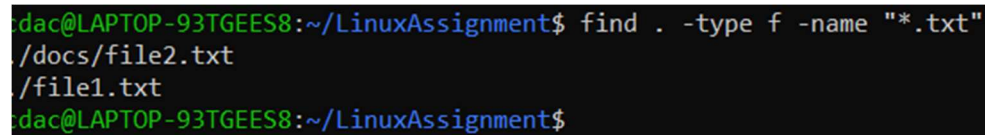
- a. Search for all files with the extension ".txt" in the current directory and its subdirectories.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ find . -type f -name "*.txt"
```

```
./docs/file2.txt
```

```
./file1.txt
```

A terminal window with a black background and green text. It shows the command 'find . -type f -name "\*.txt"' being executed, followed by the output paths './docs/file2.txt' and './file1.txt'. The prompt 'cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$' is visible at the end.

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ find . -type f -name "*.txt"
./docs/file2.txt
./file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- b. Display lines containing a specific word in a file (provide a file name and the specific word to search).

Ans:

Command `grep "Hi" file1.txt`

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat file1.txt
```

```
Hi Team
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ grep "Hi" file1.txt
```

```
Hi Team
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat file1.txt
Hi Team
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ grep "Hi" file1.txt
Hi Team
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

8) System Information: a. Display the current system date and time.

Ans: command : date

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ date
Thu Feb 27 03:01:45 UTC 2025
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ date
Thu Feb 27 03:01:45 UTC 2025
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

9) Networking: a. Display the IP address of the system.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ip a
```

```
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
```

```
inet 10.255.255.254/32 brd 10.255.255.254 scope global 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:ad:20:72 brd ff:ff:ff:ff:ff:ff
```

```
inet 192.168.36.210/20 brd 192.168.47.255 scope global eth0
```

valid\_lft forever preferred\_lft forever

inet6 fe80::215:5dff:fead:2072/64 scope link

valid\_lft forever preferred\_lft forever

cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ip a
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
    inet 10.255.255.254/32 brd 10.255.255.254 scope global 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:ad:20:72 brd ff:ff:ff:ff:ff:ff
    inet 192.168.36.210/20 brd 192.168.47.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fead:2072/64 scope link
        valid_lft forever preferred_lft forever
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ^C
```

1) b. Ping a remote server to check connectivity (provide a remote server address to ping).

cdac@LAPTOP-93TGEES8:~\$ 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=114 time=21.7 ms

64 bytes from 8.8.8.8: icmp\_seq=2 ttl=114 time=34.2 ms

64 bytes from 8.8.8.8: icmp\_seq=3 ttl=114 time=34.6 ms

64 bytes from 8.8.8.8: icmp\_seq=4 ttl=114 time=13.6 ms

64 bytes from 8.8.8.8: icmp\_seq=5 ttl=114 time=8.99 ms

64 bytes from 8.8.8.8: icmp\_seq=6 ttl=114 time=20.7 ms

64 bytes from 8.8.8.8: icmp\_seq=7 ttl=114 time=14.9 ms

64 bytes from 8.8.8.8: icmp\_seq=8 ttl=114 time=17.3 ms

64 bytes from 8.8.8.8: icmp\_seq=9 ttl=114 time=12.0 ms

64 bytes from 8.8.8.8: icmp\_seq=10 ttl=114 time=8.36 ms

64 bytes from 8.8.8.8: icmp\_seq=11 ttl=114 time=22.6 ms

^C

--- 8.8.8.8 ping statistics ---

11 packets transmitted, 11 received, 0% packet loss, time 10443ms

rtt min/avg/max/mdev = 8.357/19.003/34.640/8.584 ms

```
cdac@LAPTOP-93TGEES8:~$ 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=114 time=21.7 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=114 time=34.2 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=114 time=34.6 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=114 time=13.6 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=114 time=8.99 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=114 time=20.7 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=114 time=14.9 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=114 time=17.3 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=114 time=12.0 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=114 time=8.36 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=114 time=22.6 ms
^C
--- 8.8.8.8 ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10443ms
rtt min/avg/max/mdev = 8.357/19.003/34.640/8.584 ms
```

10) File Compression: a. Compress the "docs" directory into a zip file.

Ans : Installed zip using `sudo apt install zip`

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ zip -r docs.zip docs
adding: docs/ (stored 0%)
adding: docs/file2.txt (stored 0%)
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ls -l docs.zip
-rw-r--r-- 1 cdac cdac 316 Feb 27 14:25 docs.zip
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```



```

E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ zip -r docs.zip docs
Command 'zip' not found, but can be installed with:
sudo apt install zip
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ sudo apt install zip
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 119 not upgraded.
Need to get 176 kB/350 kB of archives.
After this operation, 933 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 zip amd64 3.0-13ubuntu0.2 [176 kB]
Fetched 176 kB in 2s (108 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 40794 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-28ubuntu4.1_amd64.deb ...
Unpacking unzip (6.0-28ubuntu4.1) ...
Selecting previously unselected package zip.
Preparing to unpack .../zip_3.0-13ubuntu0.2_amd64.deb ...
Unpacking zip (3.0-13ubuntu0.2) ...
Setting up unzip (6.0-28ubuntu4.1) ...
Setting up zip (3.0-13ubuntu0.2) ...
Processing triggers for man-db (2.12.0-4build2) ...
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ zip -r docs.zip docs
  adding: docs/ (stored 0%)
  adding: docs/file2.txt (stored 0%)
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ls -l docs.zip
-rw-r--r-- 1 cdac cdac 316 Feb 27 14:25 docs.zip
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ ^C
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ s

```

. Extract the contents of the zip file into a new directory.

```

cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ unzip docs.zip -d docs2
Archive: docs.zip
  creating: docs2/docs/
  extracting: docs2/docs/file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$

```

```

cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ unzip docs.zip -d docs2
Archive: docs.zip
  creating: docs2/docs/
  extracting: docs2/docs/file2.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$

```

11) File Editing: a. Open the "file1.txt" file in a text editor and add some text to it.

Ans:



```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ cd ..
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ cd ..
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

b. Replace a specific word in the "file1.txt" file with another word (provide the original word and the word to replace it with).

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ cd ..
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ sed -i 's/powerful/Armament/g' file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

Word powerful replace with Armament

```
cd... Command not found
cdac@LAPTOP-93TGEES8:~/LinuxAssignment/docs$ cd ..
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ sed -i 's/powerful/Armament/g' file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ s
```

## Problem 2:

- 1) 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.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ head -n 10 file1.txt
```

Learn as if you will live forever, live like you will die tomorrow.

Stay away from those people who try to disparage your ambitions. Small minds will always do that, but great minds will give you a feeling that you can become great too.

When you give joy to other people, you get more joy in return. You should give a good thought to the happiness that you can give out.

When you change your thoughts, remember to also change your world.

It is only when we take chances that our lives improve. The initial and the most difficult risk we need to take is to become honest.

Nature has given us all the pieces required to achieve exceptional wellness and health, but has left it to us to put these pieces together.

We cannot solve problems with the kind of thinking we employed when we came up with them.

Lets pick up our books and our pens. They are our most Armament weapons.

The time is always right to do what is right

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano file1.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ head -n 10 file1.txt

Learn as if you will live forever, live like you will die tomorrow.
Stay away from those people who try to disparage your ambitions. Small minds will always do that, but great minds will give you a feeling that you can become great too.
When you give joy to other people, you get more joy in return. You should give a good thought to the happiness that you can give out.
When you change your thoughts, remember to also change your world.
It is only when we take chances that our lives improve. The initial and the most difficult risk we need to take is to become honest.
Nature has given us all the pieces required to achieve exceptional wellness and health, but has left it to us to put these pieces together.
We cannot solve problems with the kind of thinking we employed when we came up with them.
Lets pick up our books and our pens. They are our most Armament weapons.
The time is always right to do what is right
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 2) . Now, to check the end of the file for any recent additions, display the last 5 lines of "data.txt" using another command.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ tail -n 5 file1.txt
```

Nature has given us all the pieces required to achieve exceptional wellness and health, but has left it to us to put these pieces together.

We cannot solve problems with the kind of thinking we employed when we came up with them.

Lets pick up our books and our pens. They are our most Armament weapons.

The time is always right to do what is right

If you're offered a seat on a rocket ship, don't ask what seat. Just get on.

cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ tail -n 5 file1.txt
Nature has given us all the pieces required to achieve exceptional wellness and health, but has left it to us to put these pieces together.
We cannot solve problems with the kind of thinking we employed when we came up with them.
Let's pick up our books and our pens. They are our most Armament weapons.
The time is always right to do what is right
If you're offered a seat on a rocket ship, don't ask what seat. Just get on.
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 3) 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.

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch numbers.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano numbers.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ head -n 15 numbers.txt
```

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch numbers.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano numbers.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ head -n 15 numbers.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 4) To focus on the last few numbers of the dataset, display the last 3 lines of "numbers.txt".

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ tail -n 3 numbers.txt
18
19
20
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ tail -n 3 numbers.txt
18
19
20
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

. 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."

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch input.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano input.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat input.txt | tr 'a-z' 'A-Z' > output.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat output.txt
SUCCESS IS THE SUM OF SMALL EFFORTS, REPEATED DAY IN AND DAY OUT.
```

THERE ARE NO SECRETS TO SUCCESS. IT IS THE RESULT OF PREPARATION, HARD WORK, AND LEARNING FROM FAILURE.

HARD WORK BEATS TALENT WHEN TALENT DOESN'T WORK HARD.

THE ONLY PLACE WHERE SUCCESS COMES BEFORE WORK IS IN THE DICTIONARY.

I FIND THAT THE HARDER I WORK, THE MORE LUCK I SEEM TO HAVE.

DON'T WISH IT WERE EASIER. WISH YOU WERE BETTER.

THERE ARE NO SHORTCUTS TO ANY PLACE WORTH GOING.

WORK HARD IN SILENCE, LET YOUR SUCCESS BE YOUR NOISE.

THE DIFFERENCE BETWEEN ORDINARY AND EXTRAORDINARY IS THAT LITTLE EXTRA.

DREAMS DON'T WORK UNLESS YOU DO.

SUCCESS USUALLY COMES TO THOSE WHO ARE TOO BUSY TO BE LOOKING FOR IT.

WITHOUT HARD WORK, NOTHING GROWS BUT WEEDS.

THE ONLY WAY TO ACHIEVE THE IMPOSSIBLE IS TO BELIEVE IT IS POSSIBLE.

THE HARDER THE STRUGGLE, THE MORE GLORIOUS THE TRIUMPH.

YOU DON'T HAVE TO BE GREAT TO START, BUT YOU HAVE TO START TO BE GREAT.

IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP.

SUCCESS IS THE RESULT OF PERFECTION, HARD WORK, LEARNING FROM FAILURE, LOYALTY, AND PERSISTENCE.

YOUR HARD WORK AND DEDICATION WILL PAY OFF ONE DAY.

THE KEY TO SUCCESS IS TO FOCUS ON GOALS, NOT OBSTACLES.

SUCCESS IS WALKING FROM FAILURE TO FAILURE WITH NO LOSS OF ENTHUSIASM.

cdac@LAPTOP-93TGEES8:~/LinuxAssignment\$

```

cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch input.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano input.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat input.txt | tr 'a-z' 'A-Z' > output.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat output.txt
SUCCESS IS THE SUM OF SMALL EFFORTS, REPEATED DAY IN AND DAY OUT.
THERE ARE NO SECRETS TO SUCCESS. IT IS THE RESULT OF PREPARATION, HARD WORK, AND LEARNING FROM FAILURE.
HARD WORK BEATS TALENT WHEN TALENT DOESN'T WORK HARD.
THE ONLY PLACE WHERE SUCCESS COMES BEFORE WORK IS IN THE DICTIONARY.
I FIND THAT THE HARDER I WORK, THE MORE LUCK I SEEM TO HAVE.
DON'T WISH IT WERE EASIER. WISH YOU WERE BETTER.
THERE ARE NO SHORTCUTS TO ANY PLACE WORTH GOING.
WORK HARD IN SILENCE, LET YOUR SUCCESS BE YOUR NOISE.
THE DIFFERENCE BETWEEN ORDINARY AND EXTRAORDINARY IS THAT LITTLE EXTRA.
DREAMS DON'T WORK UNLESS YOU DO.
SUCCESS USUALLY COMES TO THOSE WHO ARE TOO BUSY TO BE LOOKING FOR IT.
WITHOUT HARD WORK, NOTHING GROWS BUT WEEDS.
THE ONLY WAY TO ACHIEVE THE IMPOSSIBLE IS TO BELIEVE IT IS POSSIBLE.
THE HARDER THE STRUGGLE, THE MORE GLORIOUS THE TRIUMPH.
YOU DON'T HAVE TO BE GREAT TO START, BUT YOU HAVE TO START TO BE GREAT.
IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP.
SUCCESS IS THE RESULT OF PERFECTION, HARD WORK, LEARNING FROM FAILURE, LOYALTY, AND PERSISTENCE.
YOUR HARD WORK AND DEDICATION WILL PAY OFF ONE DAY.
THE KEY TO SUCCESS IS TO FOCUS ON GOALS, NOT OBSTACLES.
SUCCESS IS WALKING FROM FAILURE TO FAILURE WITH NO LOSS OF ENTHUSIASM.
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$

```

- 5) 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."

Ans:

```

cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch duplicate.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano duplicate.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat duplicate.txt
Show me a person who has never made a mistake and I'll show you someone who has never
achieved much
Failure is the condiment that gives success its flavor.
Success means doing the best with what we have. Success is the doing, not the getting; in the
trying, not the triumph. Success is a personal standard, reaching for the highest that is in us,
becoming all that we can be.
I long to accomplish a great and noble task, but it is my chief duty to accomplish small tasks as if
they were great and noble.
I long to accomplish a great and noble task, but it is my chief duty to accomplish small tasks as if
they were great and noble.
A man is a success if he gets up in the morning and gets to bed at night, and in between does what
he wants to do
In a moment of decision, the best thing you can do is the right thing to do, the next best thing is
the wrong thing, and the worst thing you can do is nothing.
Amateurs sit and wait for inspiration, the rest of us just get up and go to work.
You will never plough a field if you only turn it over in your mind.
You will never plough a field if you only turn it over in your mind.
Take the first step in faith. You don't have to see the whole staircase, just take the first step.

```



Take the first step in faith. You don't have to see the whole staircase, just take the first step.

Don't wait. The time will never be just right

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ uniq duplicate.txt
```

Show me a person who has never made a mistake and I'll show you someone who has never achieved much

Failure is the condiment that gives success its flavor.

Success means doing the best with what we have. Success is the doing, not the getting; in the trying, not the triumph. Success is a personal standard, reaching for the highest that is in us, becoming all that we can be.

I long to accomplish a great and noble task, but it is my chief duty to accomplish small tasks as if they were great and noble.

A man is a success if he gets up in the morning and gets to bed at night, and in between does what he wants to do

In a moment of decision, the best thing you can do is the right thing to do, the next best thing is the wrong thing, and the worst thing you can do is nothing.

Amateurs sit and wait for inspiration, the rest of us just get up and go to work.

You will never plough a field if you only turn it over in your mind.

Take the first step in faith. You don't have to see the whole staircase, just take the first step.

Don't wait. The time will never be just right

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch duplicate.txt
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Take the first step in faith. You don't have to see the whole staircase, just take the first step.
Don't wait. The time will never be just right
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

- 6) 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."

Ans:

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch fruit.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano fruit.txt
```

```
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat fruit.txt
```

Apple

Banana

Apricot

Atemoya

```
Avocados
Avocados
Avocados
Blueberry
Blackcurrant
Blackcurrant
Blackcurrant
Ackee
Cranberry
Cantaloupe
Cranberry
Cantaloupe
Cherry
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ sort fruit.txt | uniq -c
  1 Ackee
  1 Apple
  1 Apricot
  1 Atemoya
  3 Avocados
  1 Banana
  5 Black sapote/Chocolate pudding fruit
  3 Blackcurrant
  1 Blueberry
  2 Cantaloupe
  1 Cherry
  2 Cranberry
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$
```

```
don't wait. The time will never be just right
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ touch fruit.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ nano fruit.txt
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ cat fruit.txt
Apple
Banana
Apricot
Atemoya
Avocados
Avocados
Avocados
Blueberry
Blackcurrant
Blackcurrant
Blackcurrant
Ackee
Cranberry
Cantaloupe
Cranberry
Cantaloupe
Cherry
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
Black sapote/Chocolate pudding fruit
cdac@LAPTOP-93TGEES8:~/LinuxAssignment$ sort fruit.txt | uniq -c
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  1 Apple
  1 Apricot
  1 Atemoya
  3 Avocados
  1 Banana
  5 Black sapote/Chocolate pudding fruit
  3 Blackcurrant
  1 Blueberry
  2 Cantaloupe
  1 Cherry
```