COS ASSIGNMENT-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.

b) File Management:

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

c) Directory Management:

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

```
root@DESKTOP-5IEFJIH:~# mkdir docs
root@DESKTOP-5IEFJIH:~# ls
LinuxAssignment docs file1.txt
root@DESKTOP-5IEFJIH:~# |
```

d) Copy and Move Files:

a. Copy the "file1.txt" file into the "docs" directory and rename it to "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.

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)

h) System Information:

a. Display the current system date and time.

i) Networking:

a. Display the IP address of the system.

```
root@DESKTOP-5IEFJIH: ~
root@DESKTOP-5IEFJIH:~# ip addr
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: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether ae:ae:24:83:bd:9f brd ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether de:77:c3:ec:c4:2a brd ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/ipip 0.0.0.0 brd 0.0.0.0
5: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
    link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:ec:a7:2b brd ff:ff:ff:ff:ff
    inet 172.18.77.76/20 brd 172.18.79.255 scope global eth0
       valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:feec:a72b/64 scope link
       valid_lft forever preferred_lft forever
root@DESKTOP-5IEFJIH:~# |
```

j) File Compression:

a. Compress the "docs" directory into a zip file.

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

k) File Editing:

a. Open the "file1.txt" file in a text editor and add some text to it.

```
© root@DESKTOP-5IEFJIH: ~
root@DESKTOP-5IEFJIH:~# ls
DAY3 LinuxAssignment docs docs.zip myfile.txt myfile2.txt
root@DESKTOP-5IEFJIH:~# cat myfile.txt
names of cdac students:
anjali
sonali
shubham
gauri
ravi
root@DESKTOP-5IEFJIH:~# nano myfile.txt
root@DESKTOP-5IEFJIH:~# cat myfile.txt
names of cdac students:
anjali pal
sonali bendre
shubham gupta
gauri sharma
ravi mishra
root@DESKTOP-5IEFJIH:~#
```

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