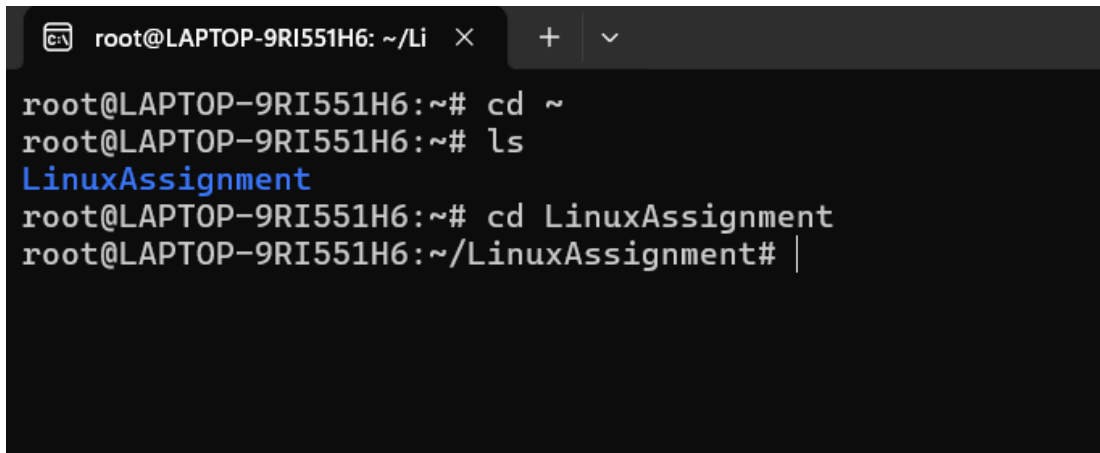


Name :- Nitu patil

PG DAC_JH

a) **Navigate and List:**

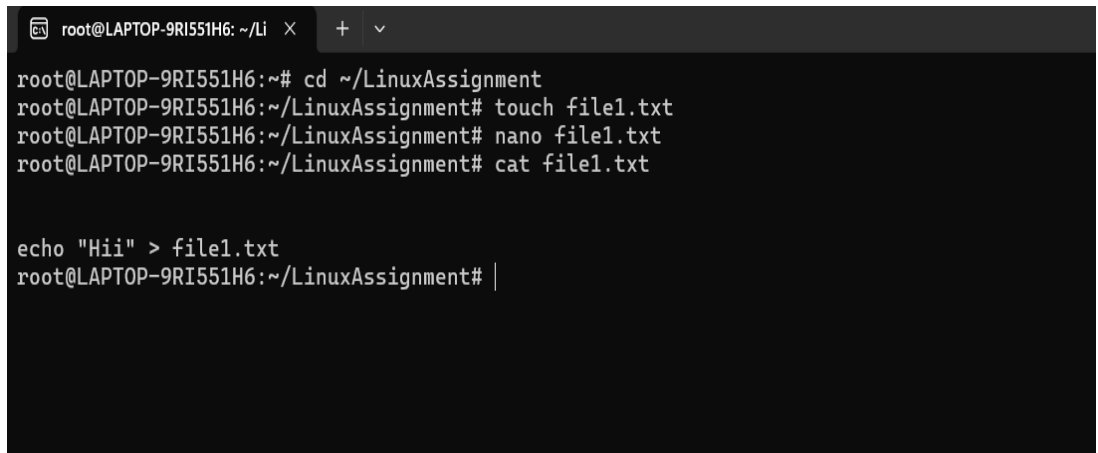
- a. Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

A terminal window with a dark background and light-colored text. The window title bar shows 'root@LAPTOP-9RI551H6: ~/Li' and standard window controls. The terminal output shows the user navigating from the home directory to the 'LinuxAssignment' directory. The command 'cd ~' is entered, followed by 'ls', which lists 'LinuxAssignment' in blue. Then 'cd LinuxAssignment' is entered, and the prompt changes to '~ /LinuxAssignment#'.

```
root@LAPTOP-9RI551H6: ~/Li × + ▾
root@LAPTOP-9RI551H6:~# cd ~
root@LAPTOP-9RI551H6:~# ls
LinuxAssignment
root@LAPTOP-9RI551H6:~# cd LinuxAssignment
root@LAPTOP-9RI551H6:~/LinuxAssignment# |
```

b) **File Management:**

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

A terminal window showing the creation and editing of a file. The user navigates to the 'LinuxAssignment' directory, creates 'file1.txt' with 'touch', opens it with 'nano', and then uses 'cat' to display its contents. The output of 'cat' is 'Hii'.

```
root@LAPTOP-9RI551H6: ~/Li × + ▾
root@LAPTOP-9RI551H6:~# cd ~/LinuxAssignment
root@LAPTOP-9RI551H6:~/LinuxAssignment# touch file1.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment# nano file1.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment# cat file1.txt

echo "Hii" > file1.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment# |
```

c) **Directory Management:**

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

```
root@LAPTOP-9RI551H6:~# cd ~ LinuxAssignment
-bash: cd: too many arguments
root@LAPTOP-9RI551H6:~# mkdir docs
root@LAPTOP-9RI551H6:~# ls
LinuxAssignment docs
root@LAPTOP-9RI551H6:~# |
```

d) **Copy and Move Files:**

- a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".

```
root@LAPTOP-9RI551H6: ~/Li X + v
root@LAPTOP-9RI551H6:~# cd ~/LinuxAssignment
root@LAPTOP-9RI551H6:~/LinuxAssignment# ls
LinuxAssignment file1.txt file1.txtyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
docs            file1.txt  ffile1.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment# cp file1.txt docs/file2.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment# cd docs
root@LAPTOP-9RI551H6:~/LinuxAssignment/docs# ls
file2.txt
root@LAPTOP-9RI551H6:~/LinuxAssignment/docs# |
```

e)

f) **Final Checklist:**

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

```
root@LAPTOP-9RI551H6: ~  
root@LAPTOP-9RI551H6:~# ls ~/LinuxAssignment  
LinuxAssignment file1.txt file1.txtyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy  
docs            file1.txt  fyile1.txt  
root@LAPTOP-9RI551H6:~# ls /  
bin  etc  init.txt  lib64  media  proc  sbin  sys  var  
boot home  lib      libx32  mnt    root  snap  tmp  
dev  init  lib32    lost+found  opt    run   srv   usr  
root@LAPTOP-9RI551H6:~#
```

g) **File Searching:**

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

```
root@LAPTOP-9RI551H6: ~  
root@LAPTOP-9RI551H6:~# ls  
LinuxAssignment docs  
root@LAPTOP-9RI551H6:~# find . -type f -name "*.txt"  
./LinuxAssignment/docs/file2.txt  
./LinuxAssignment/fyile1.txt  
./LinuxAssignment/file1.txt  
root@LAPTOP-9RI551H6:~#
```

h) System Information:

- a. Display the current system date and time.

```
root@LAPTOP-9RI551H6: ~  
root@LAPTOP-9RI551H6:~# cd  
root@LAPTOP-9RI551H6:~# date  
Fri Feb 28 01:33:39 IST 2025  
root@LAPTOP-9RI551H6:~# |
```

i) Networking:

- a. Display the IP address of the system.

```
root@LAPTOP-9RI551H6: ~  
root@LAPTOP-9RI551H6:~# 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  
    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 3e:ad:9c:6f:11:61 brd ff:ff:ff:ff:ff:ff  
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000  
    link/ether 3e:ad:36:25:02:9e brd ff: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:00:64:e0 brd ff:ff:ff:ff:ff:ff  
    inet 172.27.182.203/20 brd 172.27.111.255 scope global eth0  
        valid_lft forever preferred_lft forever  
    inet6 fe80::215:5dff:fe00:64e0/64 scope link  
        valid_lft forever preferred_lft forever  
root@LAPTOP-9RI551H6:~#
```

