COS

Assignment-1

```
cdac@OWAIS-PC: ~/LinuxAssginment1

cdac@OWAIS-PC:~$ pwd

/home/cdac

cdac@OWAIS-PC:~$ mkdir LinuxAssginment1

cdac@OWAIS-PC:~$ pwd

/home/cdac

cdac@OWAIS-PC:~$ cd LinuxAssginment1/
cdac@OWAIS-PC:~/LinuxAssginment1$ pwd

/home/cdac/LinuxAssginment1

cdac@OWAIS-PC:~/LinuxAssginment1

cdac@OWAIS-PC:~/LinuxAssginment1
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1$ touch file1.txt dac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt dac@OWAIS-PC:~/LinuxAssginment1$ nano file1.txt dac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt dac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt y name is Owais Sk dac@OWAIS-PC:~/LinuxAssginment1$ _
```

```
cdac@OWAIS-PC: ~/LinuxAssignment

cdac@OWAIS-PC:~/LinuxAssignment$ mkdir docs
cdac@OWAIS-PC:~/LinuxAssignment$ ls
docs myfile1.txt
cdac@OWAIS-PC:~/LinuxAssignment$ _
```

3.

```
cdac@OWAIS-PC: ~/LinuxAssginment1/docs —

cdac@OWAIS-PC: ~/LinuxAssginment1$ cp file1.txt docs/
cdac@OWAIS-PC: ~/LinuxAssginment1$ cd docs
cdac@OWAIS-PC: ~/LinuxAssginment1/docs$ ls

file1 tvt
sand more (Alt+F) ~/LinuxAssginment1/docs$ mv file1.txt file2.txt
cdac@OWAIS-PC: ~/LinuxAssginment1/docs$ ls

file2.txt
cdac@OWAIS-PC: ~/LinuxAssginment1/docs$
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1/docs
                                                                   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ ls -1 file2.txt
   -rw-r--r-- 1 cdac cdac 20 Feb 27 17:47 file2.txt
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ chmod u+x file2.txt
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ ls -l file2.txt
   -rwxr--r-- 1 cdac cdac 20 Feb 27 17:47 file2.txt
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ chown $(whoami) file2.txt
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ ls -l
   total 4
   -rwxr--r-- 1 cdac cdac 20 Feb 27 17:47 file2.txt
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$
    cdac@OWAIS-PC: ~/LinuxAssginment1
   cdac@OWAIS-PC:~/LinuxAssginment1/docs$ cd ...
   cdac@OWAIS-PC:~/LinuxAssginment1$ ls
   docs file1.txt
   cdac@OWAIS-PC:~/LinuxAssginment1$ _
6.
    cdac@OWAIS-PC: ~
   cdac@OWAIS-PC:~/LinuxAssginment1$ cd
   cdac@OWAIS-PC:~$ ls
   CP LinuxAssginment1 myfile sh1 sh3
   cdac@OWAIS-PC:~$ find . -type f -name "*.txt"
   ./LinuxAssginment1/docs/file2.txt
   ./LinuxAssginment1/file1.txt
   cdac@OWAIS-PC:~$
    cdac@OWAIS-PC: ~/LinuxAssginment1
   cdac@OWAIS-PC:~/LinuxAssginment1$ grep -n "am" file1.txt
    L:My name is Owais Sk
   cdac@OWAIS-PC:~/LinuxAssginment1$ grep -ni 'i" file1.txt
   cdac@OWAIS-PC:~/LinuxAssginment1$ grep -n "i" file1.txt
    L:My name is Owais Sk
   cdac@OWAIS-PC:~/LinuxAssginment1$
8.
   cdac@OWAIS-PC:~/LinuxAssginment1$ date
   Thu Feb 27 18:00:02 UTC 2025
   cdac@OWAIS-PC:~/LinuxAssginment1$
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1
   Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 unzip amd64 6.0-28ubuntu4.1 [174 kB]
    Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 zip amd64 3.0-13ubuntu0.2 [176 kB]
    Fetched 350 kB in 2s (221 kB/s)
    Selecting previously unselected package unzip.
    (Reading database ... 40802 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@OWAIS-PC:~/LinuxAssginment1$ zip -r docs.zip docs
     adding: docs/ (stored 0%)
     adding: docs/file2.txt (stored 0%)
    cdac@OWAIS-PC:~/LinuxAssginment1$ unzip docs.zip -d newdoc
    Archive: docs.zip
     creating: newdoc/docs/
    extracting: newdoc/docs/file2.txt
10. cdac@OWAIS-PC:~/LinuxAssginment1$
    cdac@OWAIS-PC: ~/LinuxAssginment1
    dac@OWAIS-PC:~/LinuxAssginment1$ nano file1.txt
    cdac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt
    My name is Owais Sk
    I am a Cdacian
    cdac@OWAIS-PC:~/LinuxAssginment1$
     cdac@OWAIS-PC: ~/LinuxAssginment1
                                                                                  cdac@OWAIS-PC:~/LinuxAssginment1$ nano file1.txt
     cdac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt
    My name is Owais Sk
    I am a Cdacian
     cdac@OWAIS-PC:~/LinuxAssginment1$ sed -i 's/Owais/Armaan/g' file1.txt
     cdac@OWAIS-PC:~/LinuxAssginment1$ cat file1.txt
    My name is Armaan Sk
    I am a Cdacian
     cdac@OWAIS-PC:~/LinuxAssginment1$
```



Problem 2

```
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2
    cdac@OWAIS-PC:~/LinuxAssginment1$ mkdir Problem2
    cdac@OWAIS-PC:~/LinuxAssginment1$ cd Problem2/
    cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ touch data.txt
    cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ nano data.txt
    cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ head -n 10 data.txt
   India
   Bangaladesh
   Bhutan
   Pakistan
   Afghanistan
   Russia
   Srilanka
   Austria
   Indonesia
1. cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2$ touch numbers.txt
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2$ nano numbers.txt
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2$ head -16 numbers.txt
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2$ head -16 numbers.txt

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2$
```

3

```
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ tail -3 numbers.txt
23
24
25
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2
shail
umesh
rahul
saif
haris
komal
nikita
rohit
faizan
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ cat output.txt
OWAIS
SHAIL
UMESH
RAHUL
SAIF
HARIS
KOMAL
NIKITA
ROHIT
FAIZAN
:dac@OWAIS-PC:~/LinuxAssginment1/Problem2$
```

```
cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2
                                                                          >
C++
Python
Nodejs
Nodejs
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ cat duplicate.txt | sort | unique
Command 'unique' not found, but can be installed with: sudo apt install john
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ cat duplicate.txt | sort | uniq
C++
GoLang
Java
Nodejs
Python
React
Scala
Swift
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$
```

🔐 cdac@OWAIS-PC: ~/LinuxAssginment1/Problem2

```
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ nano fruit.txt
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ cat fruit.txt
mango
mango
mango
lichi
lichi
sweet lime
apple
apple
kiwi
kiwi
kiwi
kiwi
orange
blueberry
orange
orange
banana
banana
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ cat fruit.txt | sort | uniq -c
     1 apple
     1 apple
     2 banana
     1 blueberry
     4 kiwi
     2 lichi
     3 mango
     3 orange
     1 sweet lime
cdac@OWAIS-PC:~/LinuxAssginment1/Problem2$ _
```