OS ASSIGNMENT

Assignment 1 - ADITI MEHRE_KH

Problem 1:

```
1 . NAVIGATING TO CURRENT DIRECTORY
aditimehre@Aditis-MacBook-Air ~ % ls
Applications        IdeaProjects        Pictures
Desktop         Library         Public
Development     Macintosh HD        Vs code
Documents       Movies          eclipse-workspace
Downloads       Music
Flutter Projects    MyNewFolder


2. MADE "LinuxAssignment" directory
aditimehre@Aditis-MacBook-Air ~ % cd LinuxAssignment
aditimehre@Aditis-MacBook-Air LinuxAssignment %
aditimehre@Aditis-MacBook-Air LinuxAssignment % ls
aditimehre@Aditis-MacBook-Air LinuxAssignment % touch file1.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % ls
file1.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment %


3 . MADE THE "DOCS " DIRECTORY
aditimehre@Aditis-MacBook-Air LinuxAssignment % mkdir docs
aditimehre@Aditis-MacBook-Air docs %


4. COPY AND RENAME
aditimehre@Aditis-MacBook-Air LinuxAssignment % cp file1.txt docs/file2.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % cd docs
aditimehre@Aditis-MacBook-Air docs % ls
file2.txt


5. PERMISSION AND OWNERSHIP
aditimehre@Aditis-MacBook-Air docs % chmod u+rwx, o+r file2.txt
chmod: Invalid file mode: u+rwx,
aditimehre@Aditis-MacBook-Air docs % chmod u+rwx,o+r file2.txt

aditimehre@Aditis-MacBook-Air docs % chmod u+rwx,o+r file2.txt
aditimehre@Aditis-MacBook-Air docs % sudo chown $(whoami) file2.txt

Password:
```

```
6. FINAL CHECKLIST
aditimehre@Aditis-MacBook-Air docs % ls -l docs/file2.txt

ls: docs/file2.txt: No such file or directory
aditimehre@Aditis-MacBook-Air docs % ls -l file2.txt

-rwxr--r--  1 aditimehre  staff  0 Aug 28 18:25 file2.txt
aditimehre@Aditis-MacBook-Air docs %

7. FILE SEARCHING
aditimehre@Aditis-MacBook-Air ~ % cd LinuxAssignment
aditimehre@Aditis-MacBook-Air LinuxAssignment % find . -type f -name "*.txt"

./file1.txt
./docs/file2.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment %


DISPLAY SPECEFIC WORD
aditimehre@Aditis-MacBook-Air LinuxAssignment % grep "file" file1.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % grep "Mehre" file1.txt
Aditi Mehre
aditimehre@Aditis-MacBook-Air LinuxAssignment %

8. SYSTEM CUREENT DATE AND TIME
aditimehre@Aditis-MacBook-Air LinuxAssignment % date
Wed Aug 28 19:03:51 IST 2024
aditimehre@Aditis-MacBook-Air LinuxAssignment %

9 . NOT UNDERSTOOD
10 .  FILE COMPRESSION
Last login: Wed Aug 28 18:54:42 on ttys033
aditimehre@Aditis-MacBook-Air ~ % cd LinuxAssignment
aditimehre@Aditis-MacBook-Air LinuxAssignment % cd docs
aditimehre@Aditis-MacBook-Air docs % zip -r docs.zip docs

    zip warning: name not matched: docs

zip error: Nothing to do! (try: zip -r docs.zip . -i docs)
aditimehre@Aditis-MacBook-Air docs % cd ..

aditimehre@Aditis-MacBook-Air LinuxAssignment % zip -r docs.zip docs

  adding: docs/ (stored 0%)
  adding: docs/file2.txt (stored 0%)
aditimehre@Aditis-MacBook-Air LinuxAssignment % mkdir extracted_docs
aditimehre@Aditis-MacBook-Air LinuxAssignment % unzip docs.zip -d extracted_docs
Archive:  docs.zip
   creating: extracted_docs/docs/
 extracting: extracted_docs/docs/file2.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

```
10 .COMPRESSION

aditimehre@Aditis-MacBook-Air ~ % cd LinuxAssignment
aditimehre@Aditis-MacBook-Air LinuxAssignment % cd docs
aditimehre@Aditis-MacBook-Air docs % zip -r docs.zip docs

    zip warning: name not matched: docs

zip error: Nothing to do! (try: zip -r docs.zip . -i docs)
aditimehre@Aditis-MacBook-Air docs % cd ..

aditimehre@Aditis-MacBook-Air LinuxAssignment % zip -r docs.zip docs

  adding: docs/ (stored 0%)
  adding: docs/file2.txt (stored 0%)
aditimehre@Aditis-MacBook-Air LinuxAssignment % mkdir extracted_docs
aditimehre@Aditis-MacBook-Air LinuxAssignment % unzip docs.zip -d extracted_docs
Archive:  docs.zip
   creating: extracted_docs/docs/
 extracting: extracted_docs/docs/file2.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % clear

11. FILE EDITING :

aditimehre@Aditis-MacBook-Air LinuxAssignment % nano file1.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % sed -i 's/Aditi/Adi/g' file1.txt

sed: 1: "file1.txt": invalid command code f
aditimehre@Aditis-MacBook-Air LinuxAssignment % sed -i '' 's/Aditi/Adi/g' file1.txt

aditimehre@Aditis-MacBook-Air LinuxAssignment % cat file1.txt

Adi Mehre
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

Problem two :

```
1. DISPLAY 10 LINES OF THE FILE

aditimehre@Aditis-MacBook-Air LinuxAssignment % mv file1.txt data.txt

aditimehre@Aditis-MacBook-Air LinuxAssignment % head -10 data.txt
Adi Mehre
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano data.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % head -10 data.txt
hi
Adi Mehre
```

```
hi
hello
EVeryone
good morning
good eve
bye bye
format
explanation
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

2. DISPLAY LAST 5 LINES OF THE FILE

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % tail -5 data.txt

good eve
bye bye
format
explanation
deadlock
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

3. DISPLAY 15 LINES IN NUMBERS.TXT FILE

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % touch numbers.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano numbers.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano numbers.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % head -15 numbers.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

4. DISPLAY LAST 3 LINES OF NUMBERS.TXT

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % tail -3 numbers.txt
18
19
20
```

```
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

5. LOWERCASE INTO UPPERCASE

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % mv numbers.txt input.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano input.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % tr 'a-z' 'A-Z' < input.txt > output.txt

aditimehre@Aditis-MacBook-Air LinuxAssignment % cat input.txt
Aditi Mehre is a PG-DAC Student .
aditimehre@Aditis-MacBook-Air LinuxAssignment % cat output.txt

ADITI MEHRE IS A PG-DAC STUDENT .

aditimehre@Aditis-MacBook-Air LinuxAssignment % ls
data.txt    docs.zip    input.txt
docs        extracted_docs  output.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

6. DUPLICATE TEXT IN FILE

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % mv output.txt duplicate.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano duplicate.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % sort duplicate.txt | uniq

ADITI MEHRE IS A PG-DAC STUDENT .
Aditi Mehre is confident girl .

aditimehre@Aditis-MacBook-Air LinuxAssignment % cat duplicate.txt

ADITI MEHRE IS A PG-DAC STUDENT .
ADITI MEHRE IS A PG-DAC STUDENT .
ADITI MEHRE IS A PG-DAC STUDENT .
ADITI MEHRE IS A PG-DAC STUDENT .
ADITI MEHRE IS A PG-DAC STUDENT .
Aditi Mehre is confident girl .
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```

7. FRUITS FILE WITH DUPLICATE NAMES

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % mv duplicate.txt fruits.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % nano fruits.txt
aditimehre@Aditis-MacBook-Air LinuxAssignment % cat fruit.txt
cat: fruit.txt: No such file or directory
aditimehre@Aditis-MacBook-Air LinuxAssignment % cat fruits.txt
Apple
Apple
Mango
Strawberries
Mango
Grapes
```

```
aditimehre@Aditis-MacBook-Air LinuxAssignment % sort fruits.txt | uniq

Apple
Grapes
Mango
Strawberries
aditimehre@Aditis-MacBook-Air LinuxAssignment %
```