Experiment 2

Execute essential Ubuntu shell commands for file manipulation and viewing file content.

Pre-requisites

- Create directory of your name
- Change directory to new directory
- Within that folder, create empty file with name *fruits.txt*
- Add 7 fruits names into it (each on new line)

Tasks to be performed

1. View the Contents of the File
2. Count the Number of Lines
3. Display the First Few Lines
4. Display the Last Few Lines
5. Search for a Specific Pattern
6. Delete Lines Containing a Specific Pattern
7. Insert a Line at a Specific Position
8. Replace a Specific Pattern
9. Append Text to the End of the File
10. Sort the Contents of the File
11. Display Line Numbers
12. Reverse the Order of Lines
13. Display Lines Matching a Specific Pattern
14. Count Words in the File
15. Display Lines Within a Range
16. Remove Duplicate Lines
17. Check for a Specific Word and Display its Line Number
18. Calculate the Length of Each Line
19. Check if a File Contains a Specific Word
20. Create a Backup of a File

- Create folder of your name

mkdir DKB

- Change directory to new directory

cd DKB

- Within that folder, create empty file with name *fruits.txt*

touch fruits.txt

- Add 7 fruits names into it (each on new line)

echo –e “strawberry \norange \nkiwi \nwatermelon \nblueberry \napple \nbanana” >> fruits.txt

1. View the Contents of the File

cat fruits.txt

2. Count the Number of Lines

wc -l fruits.txt

3. Display the First Few Lines

head –n 3 fruits.txt

4. Display the Last Few Lines

tail –n 3 fruits.txt

5. Search for a Specific Pattern

grep ‘berry’ fruits.txt

6. Delete Lines Containing a Specific Pattern

sed ‘/banana/d’ fruits.txt > modified_fruits.txt

cat modified_fruits.txt

7. Insert a Line at a Specific Position

sed ‘3i\grape’ fruits.txt > modified_fruits.txt

cat modified_fruits.txt

8. Replace a Specific Pattern

sed ‘s/banana/mango/’ fruits.txt > modified_fruits.txt

cat modified_fruits.txt

9. Append Text to the End of the File

echo “grapes” >> fruits.txt

cat fruits.txt

10. Sort the Contents of the File

sort fruits.txt > sorted_fruits.txt

cat sorted_fruits.txt

11. Display Line Numbers

nl fruits.txt

12. Reverse order of lines

tac fruits.txt

13. Display Lines Matching a Specific Pattern

grep ‘a’ fruits.txt

14. Count Words in the File

wc –w fruits.txt

15. Display lines within a range

sed –n ‘3,5p’ fruits.txt

16. Remove Duplicate Lines

sort fruits.txt | ***uniq*** > modified_fruits.txt

cat modified_fruits.txt

17. Check for a Specific Word and Display its Line Number

grep –n ‘watermelon’ fruits.txt

18. Calculate the Length of Each Line

awk '{ print length, $0 }' fruits.txt

19. Check if a File Contains a Specific Word

grep -q 'banana' fruits.txt ***&& echo*** “Found” || ***echo*** “Not Found”

20. Create a Backup of a File

cp fruits.txt backup_fruits.txt