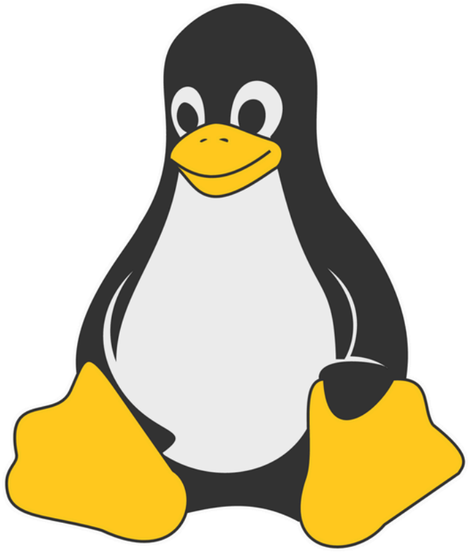

Ex - 03

2000

After any exercise, attach the commands' screenshots related to the exercise.

File and Directory Management with Basic Linux Commands

Solve the exercises step-by-step approach in a cohesive, logical sequence.

Step A: Directory and File Creation

20*50 =1000

1. Create a directory named **exercise** in your home directory.

2. Navigate into the **exercise** directory.

3. Create three sub-directories named **dir1**, **dir2**, and **dir3**.

4. Inside **dir1**, create five empty files named **file1.txt**, **file2.txt**, **file3.txt**, **file4.txt**, and **file5.txt**.

Step B: Using Variables and Globbing

5. Create a variable **MYDIR** and assign it the path of **dir1**.

6. List all the files in **dir1** using the variable.

7. Use globbing to list all **.txt** files in **dir1** .

Step C: File Content Manipulation

8. Add some text to **file1.txt** .

9. View the content of **file1.txt** using **cat** .

10. Copy **file1.txt** to **dir2** and rename it to **copy_of_file1.txt** .

11. Move **file2.txt** from **dir1** to **dir3** .

Step D: Searching and Sorting

12. Create a file **sample.txt** in **dir1** with the following content:

```
apple
banana
cherry
watermelon
date
elderberry
fig
grape
```

13. Use **grep** to find lines containing the letter **'a'** in **sample.txt**.

14. Use a basic **regular expression** with **grep** to find lines that start with the letter **'b'** or **'d'** in **sample.txt** .

15. **Sort** the contents of **sample.txt** and redirect the output to a new file **sorted_sample.txt** in **dir1** .

Step E: File Analysis

16. Use **cut** to display only the **first 3 characters** of each line in **sorted_sample.txt** .

17. Use **wc** to count the number of lines, words, and characters in **sorted_sample.txt** .

Step F: Cleanup

18. Find and list all **.txt** files in the **exercise** directory and its sub-directories.

19. Remove **file3.txt** from **dir1** .

20. List all remaining files and directories in **exercise** to confirm the deletion.

Best wishes.