Operating System

Lab Assignment-1

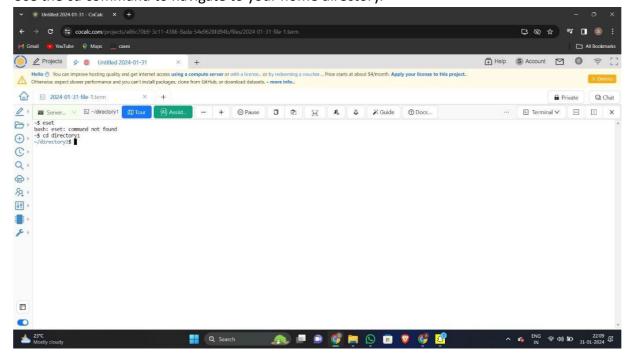
Name: Akula Rajeshwari

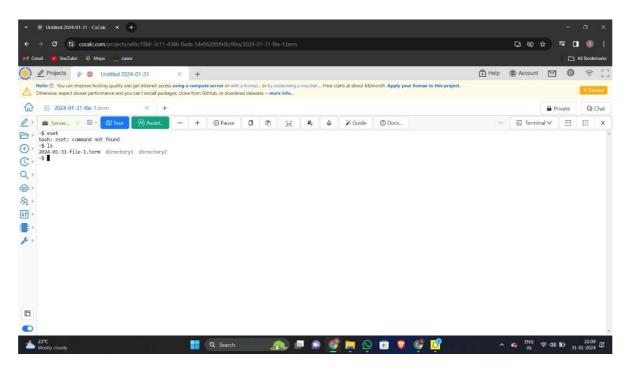
Hall Ticket Number: 2203A51531

Batch: 10

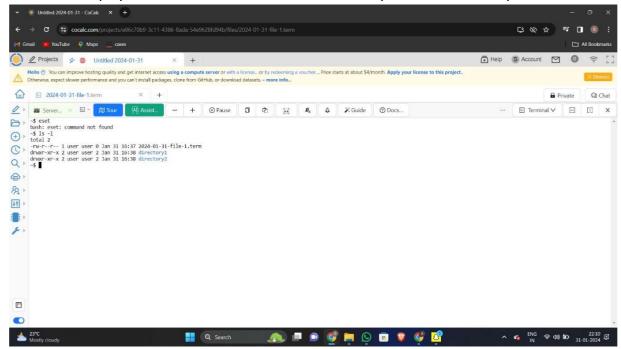
Task 1: Navigate and List

1. Use the cd command to navigate to your home directory.



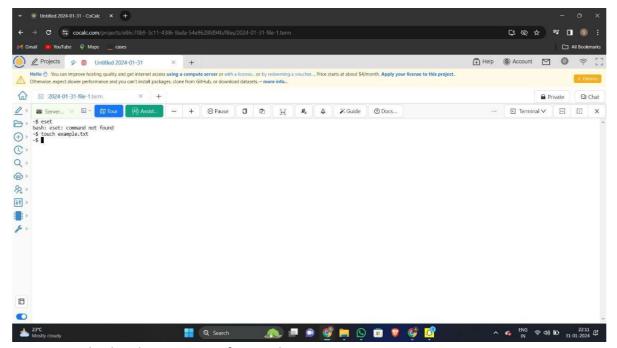


- 2. Use Is to list the contents of your home directory.
- 3. Use Is -I to display detailed information about the files in your home directory

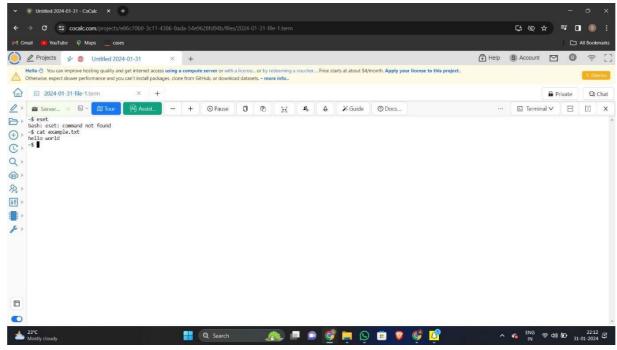


Task 2: File Manipulation

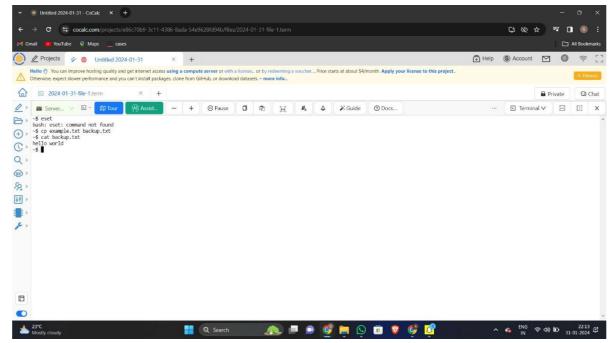
4. Create an empty file named example.txt using the touch command.



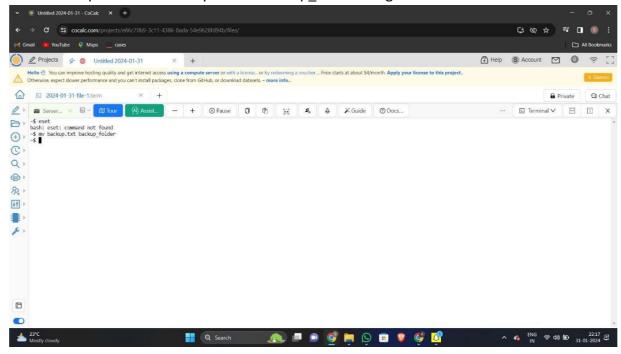
5. Use cat to display the contents of example.txt.



6. Copy example.txt to a new file named backup.txt using the cp command.

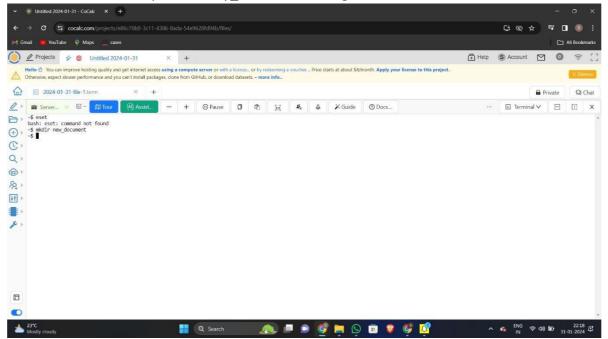


7. Move backup.txt to a directory named backup_folder using the mv command.

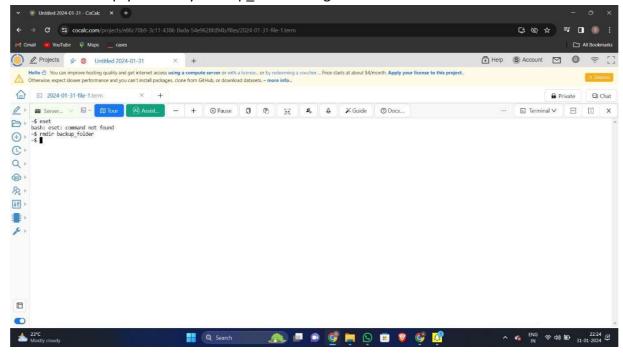


Task 3: Directory Operations

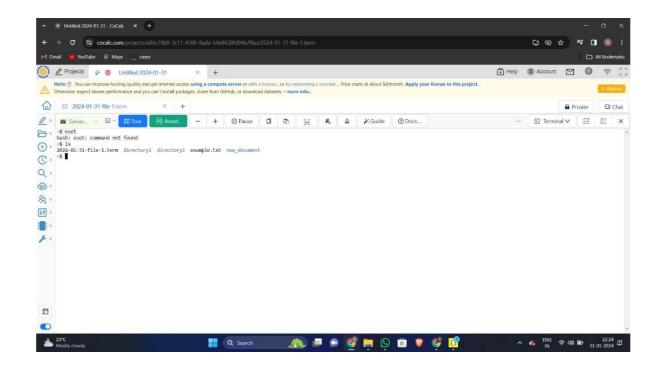
8. Create a new directory named my_documents using the mkdir command.



9. Remove the empty directory backup_folder using the rmdir command



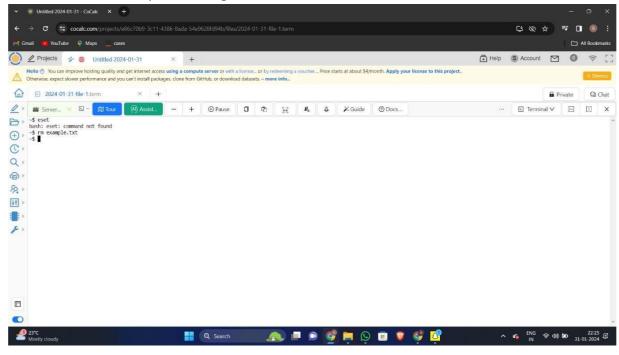
10. Use Is to verify that the backup_folder directory has been removed.



Task 4:

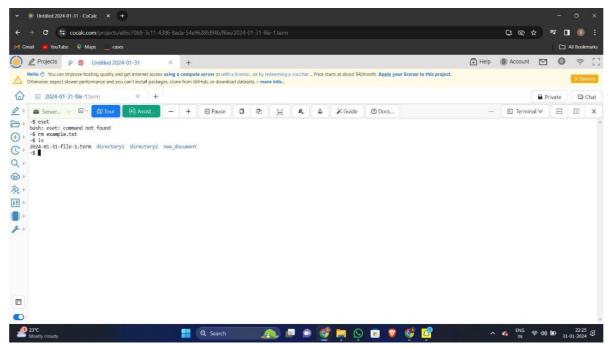
File Removal

11. Remove the file example.txt using the rm command.



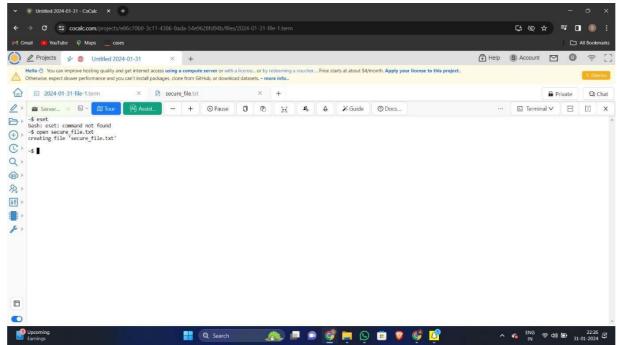
12. Use Is to confirm that example.txt has been deleted.

Task 5:



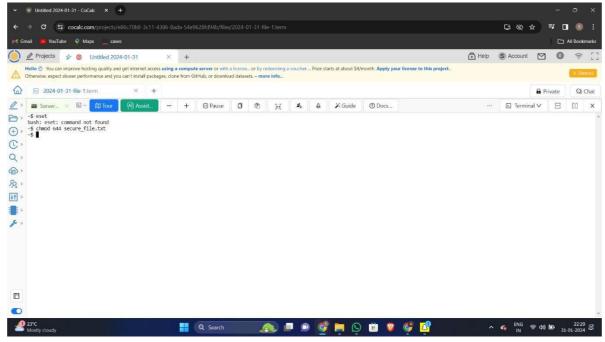
Permissions and Security 13.

Create a new file named secure_file.txt.



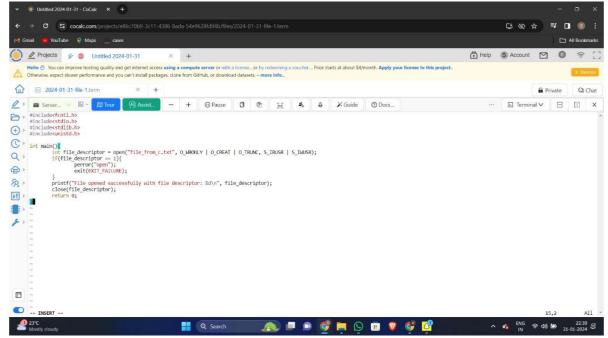
Task 6:

14. Use chmod to set the permissions of secure_file.txt to read and write for the owner and read only for others.

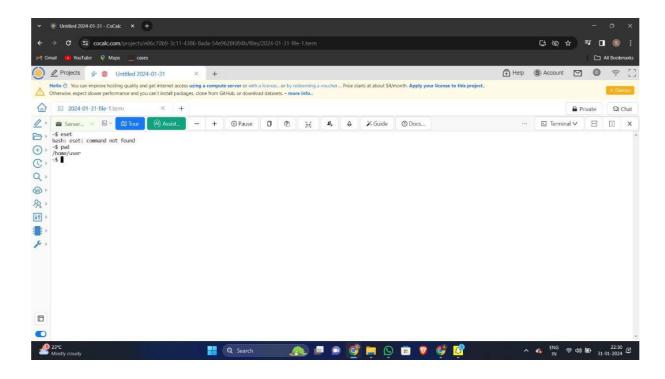


Print Working Directory

15. Use pwd to print the current working directory

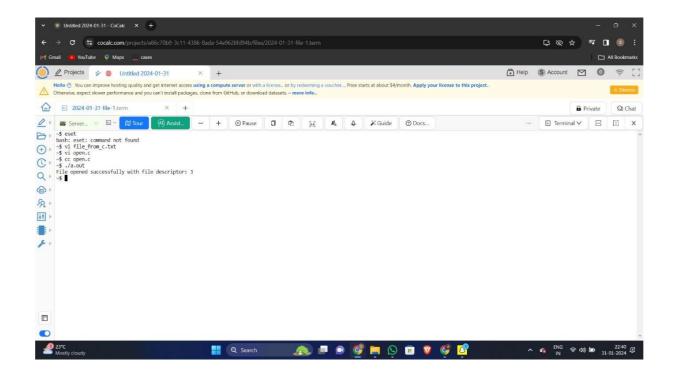


Task 7:

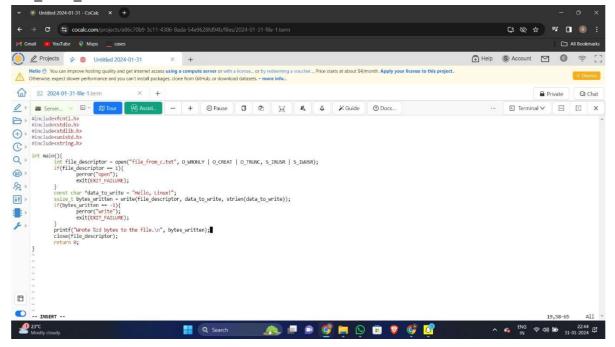


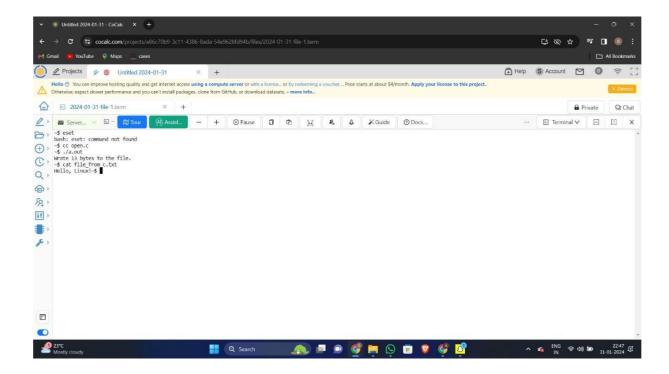
Task 7: System Calls

16. Write a simple C program that uses the open system call to create a new file named file_from_c.txt.



17. Extend the program to use the write system call to write "Hello, Linux!" into file_from_c.txt.





18. Modify the program to use the read system call to read and display the content of file_from_c.txt.

