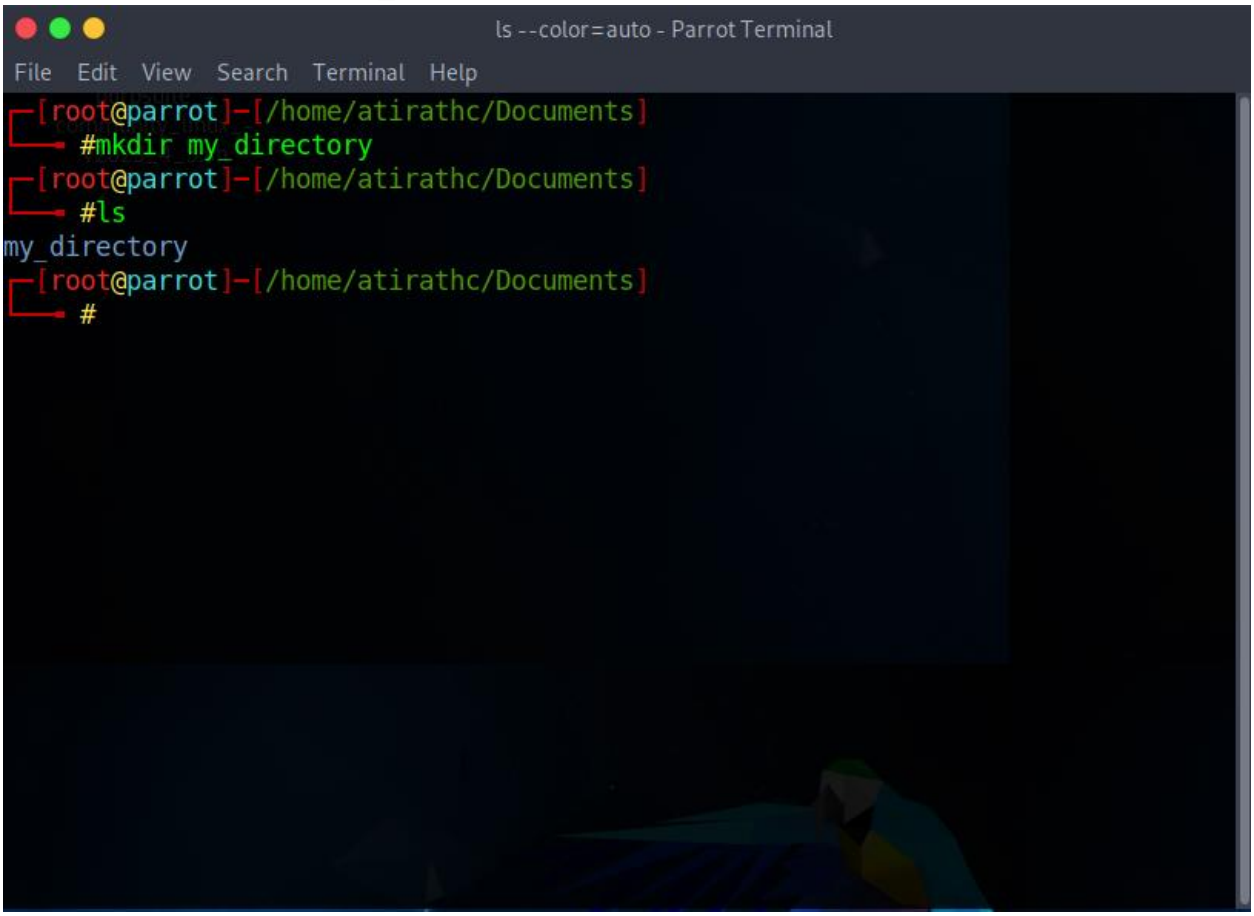
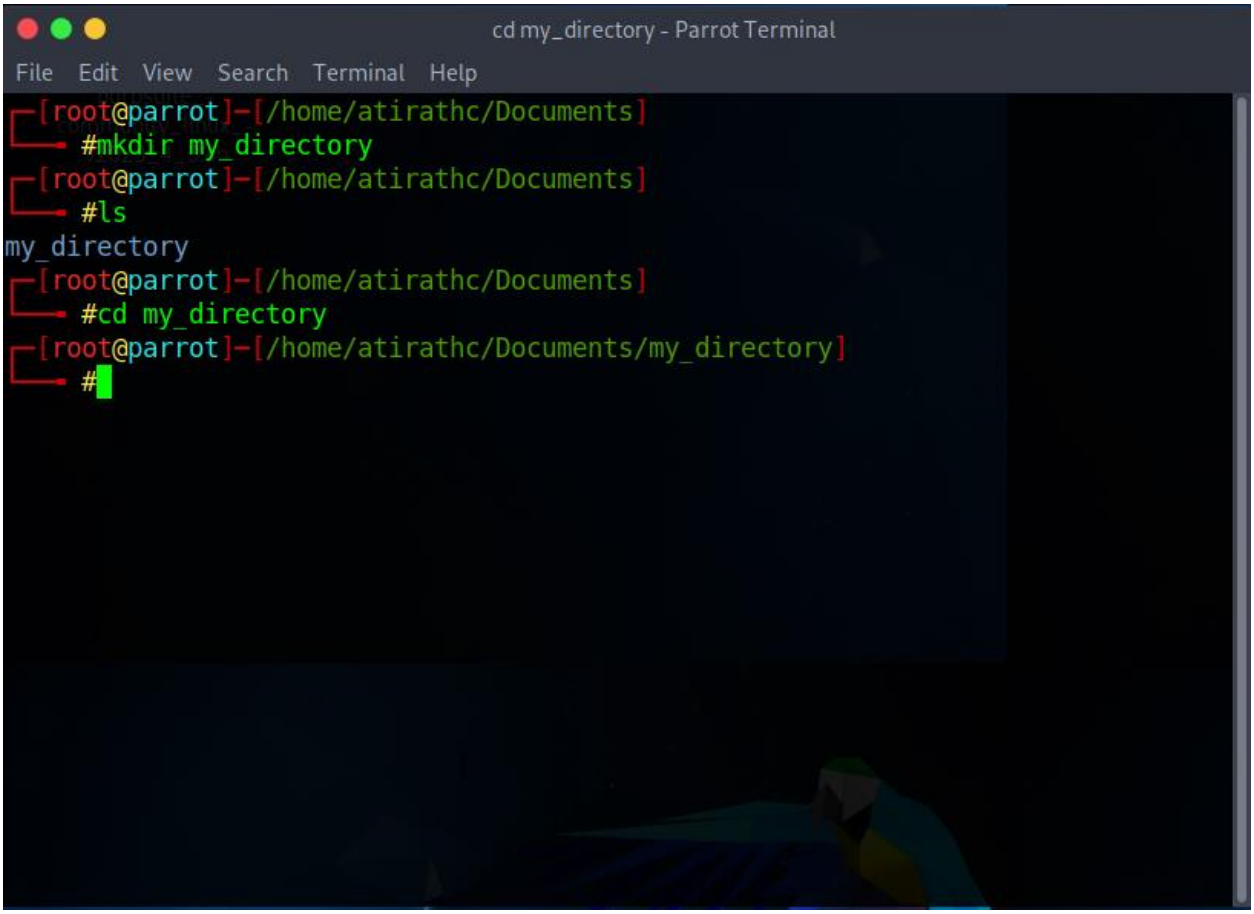
Assignment: Bash Shell Basics

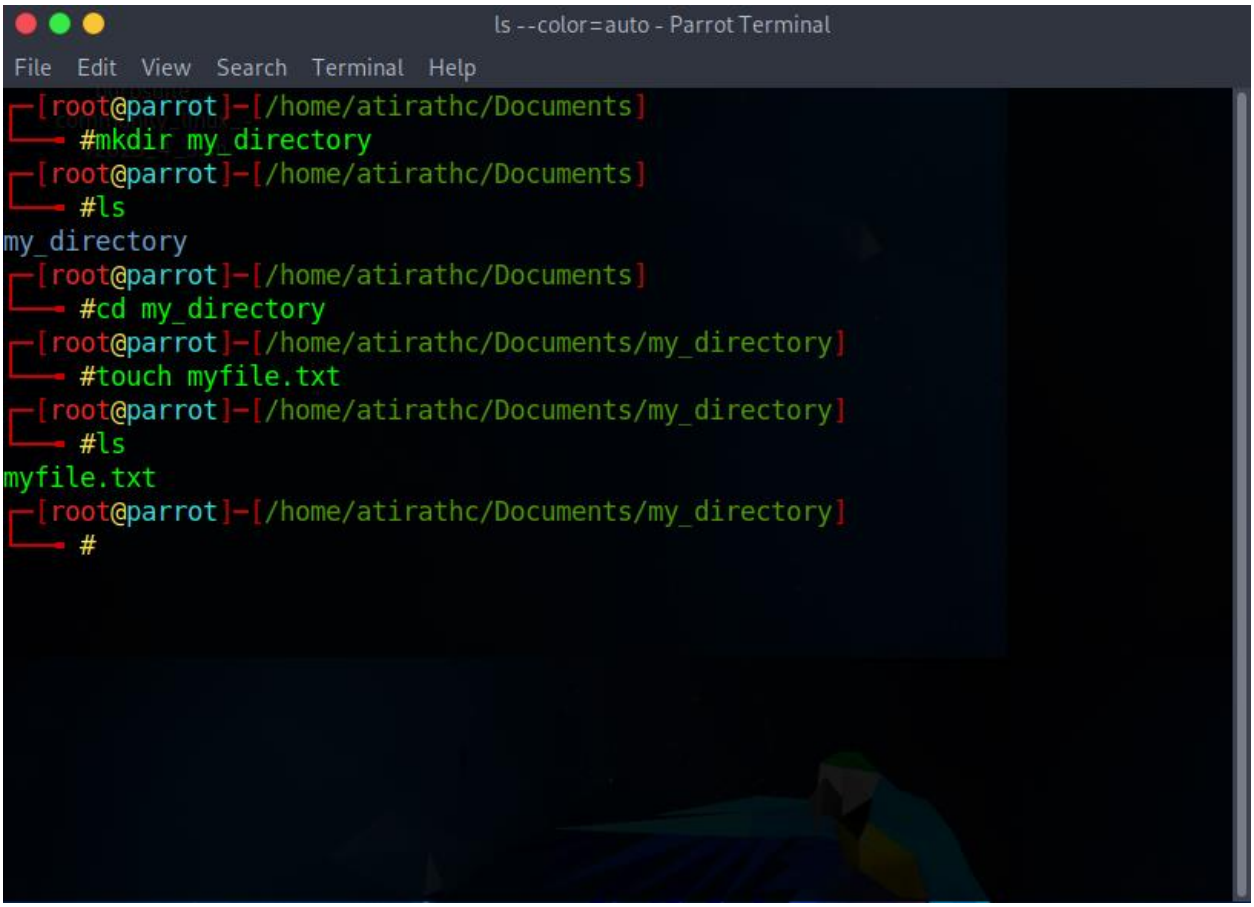
Task 1: File and Directory Manipulation

1. Create a directory called "my_directory".
2. 

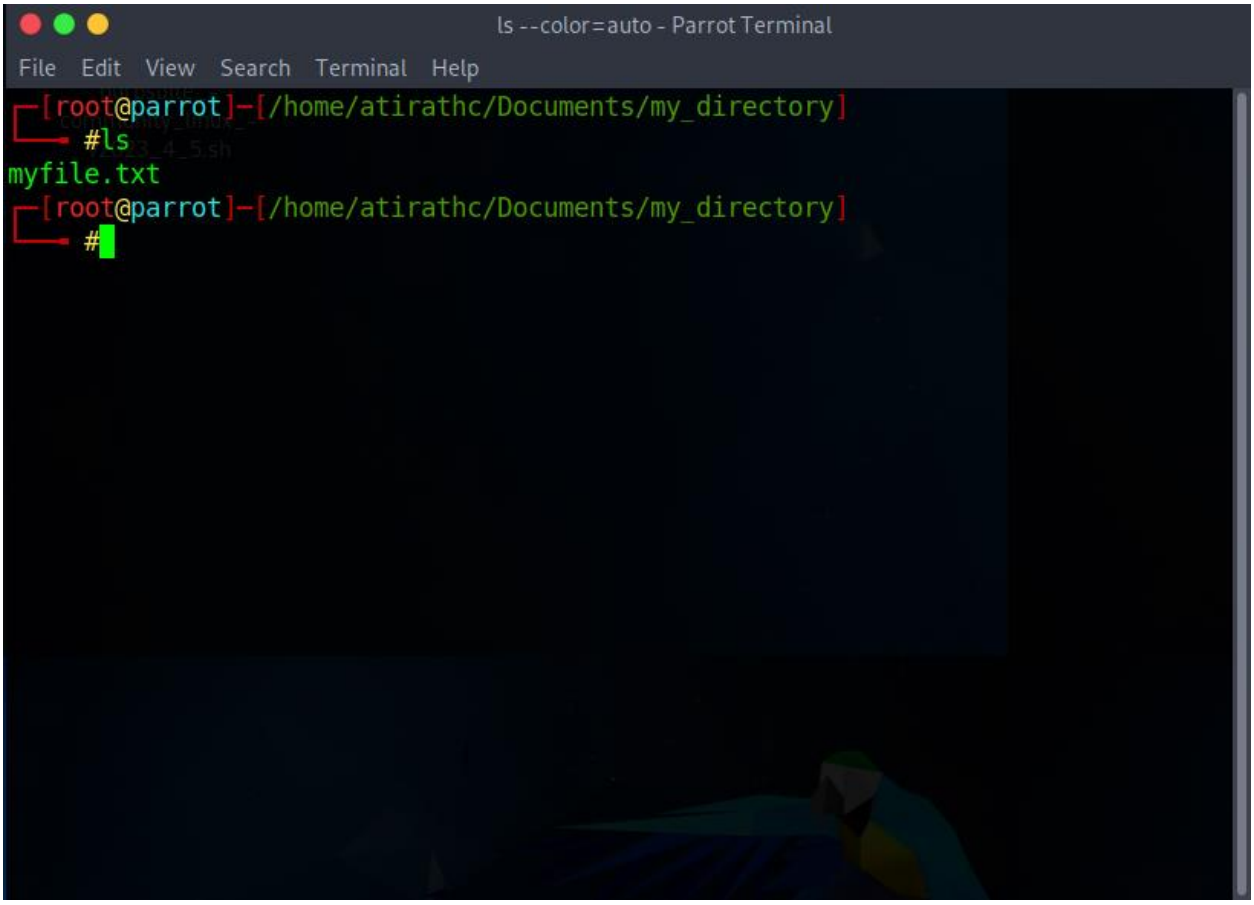
3. Navigate into the "my_directory".

4. 

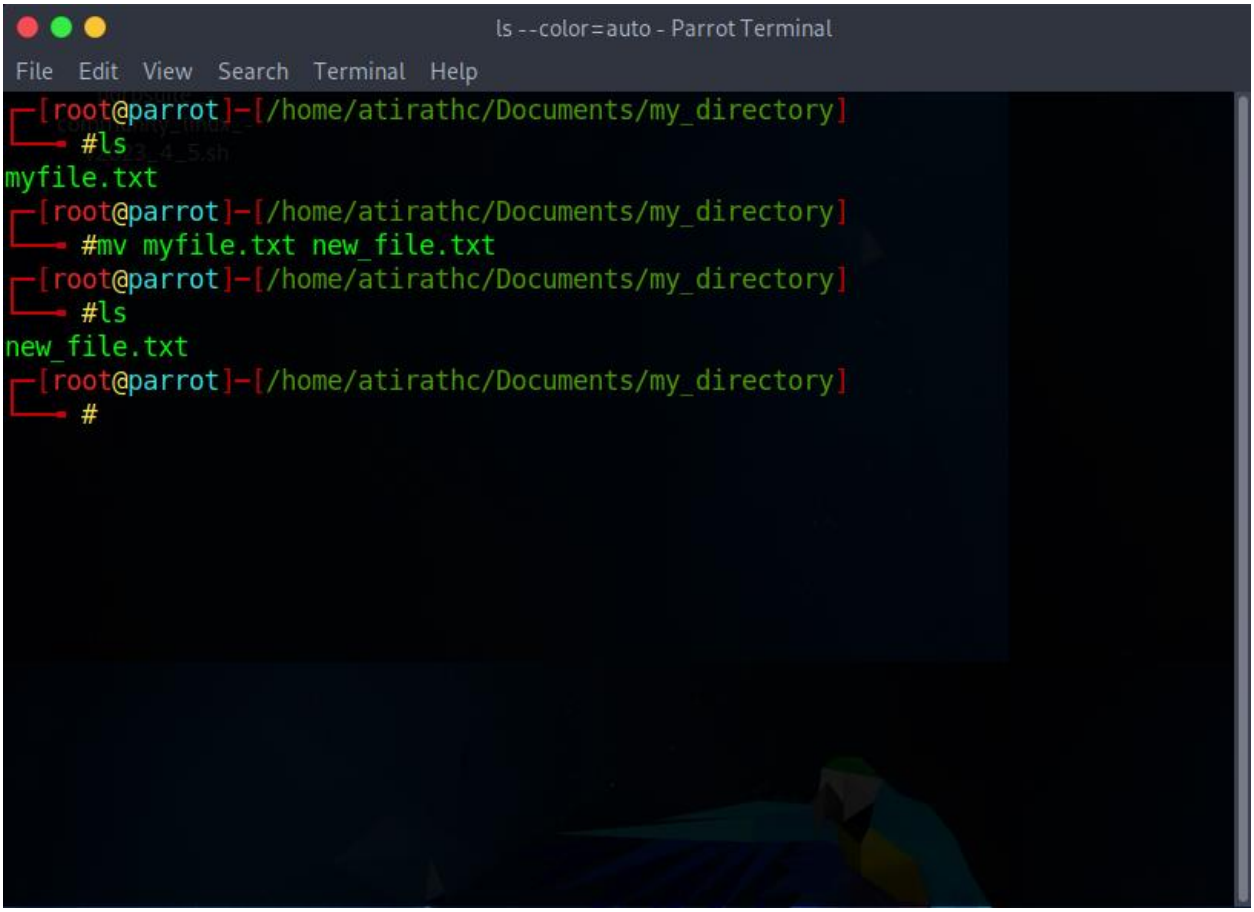
5. Create an empty file called "my_file.txt".

6. 

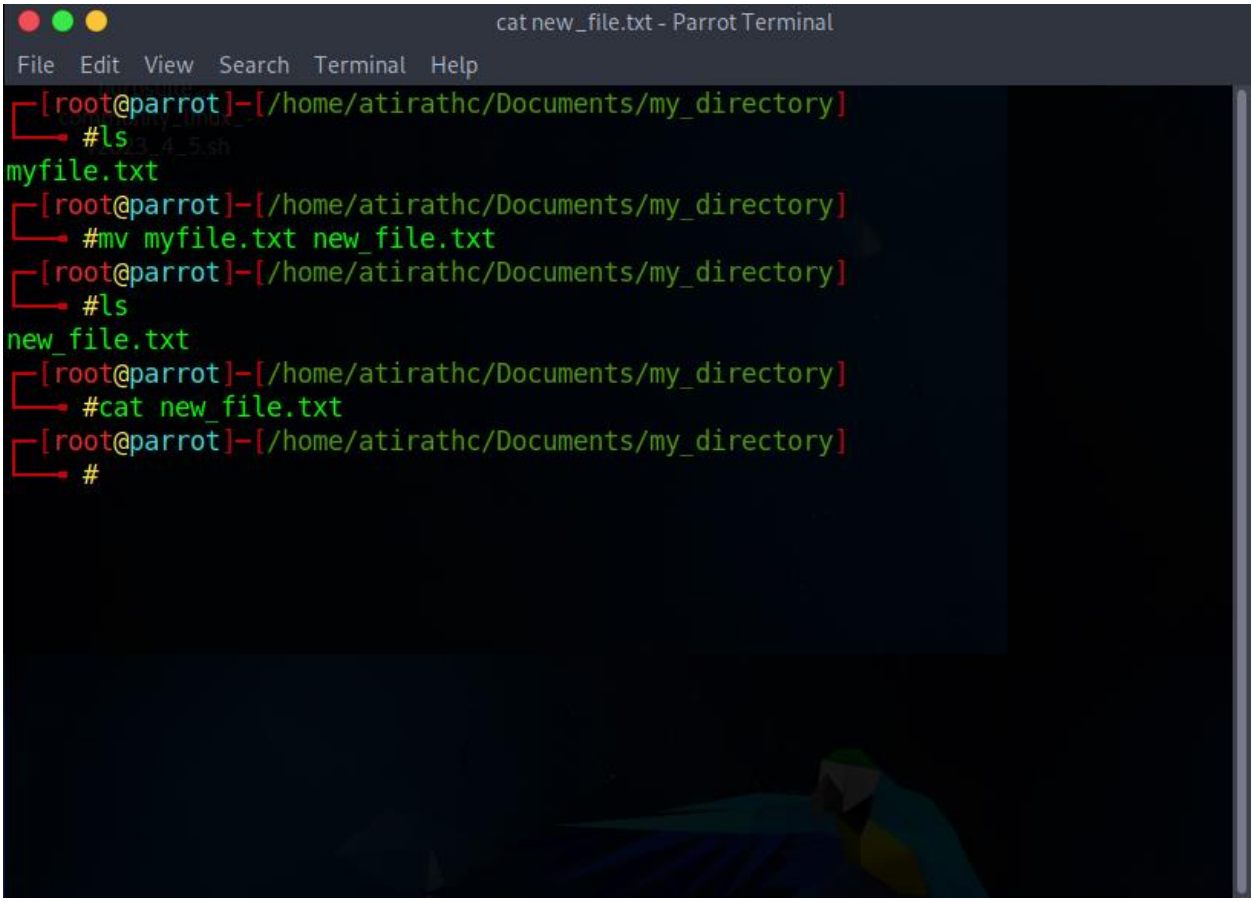
7. List all the files and directories in the current directory.

8. 

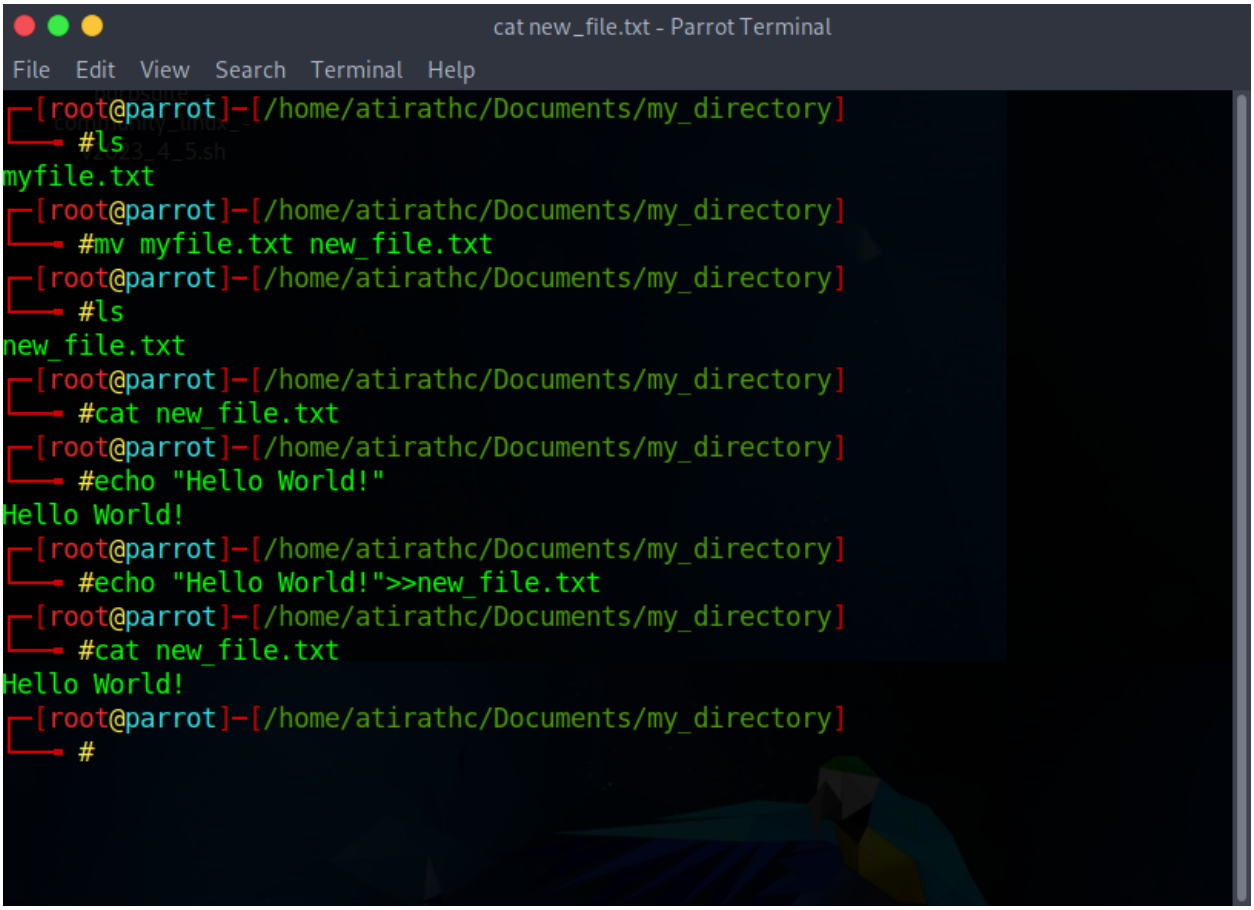
9. Rename "my_file.txt" to "new_file.txt".

10. 

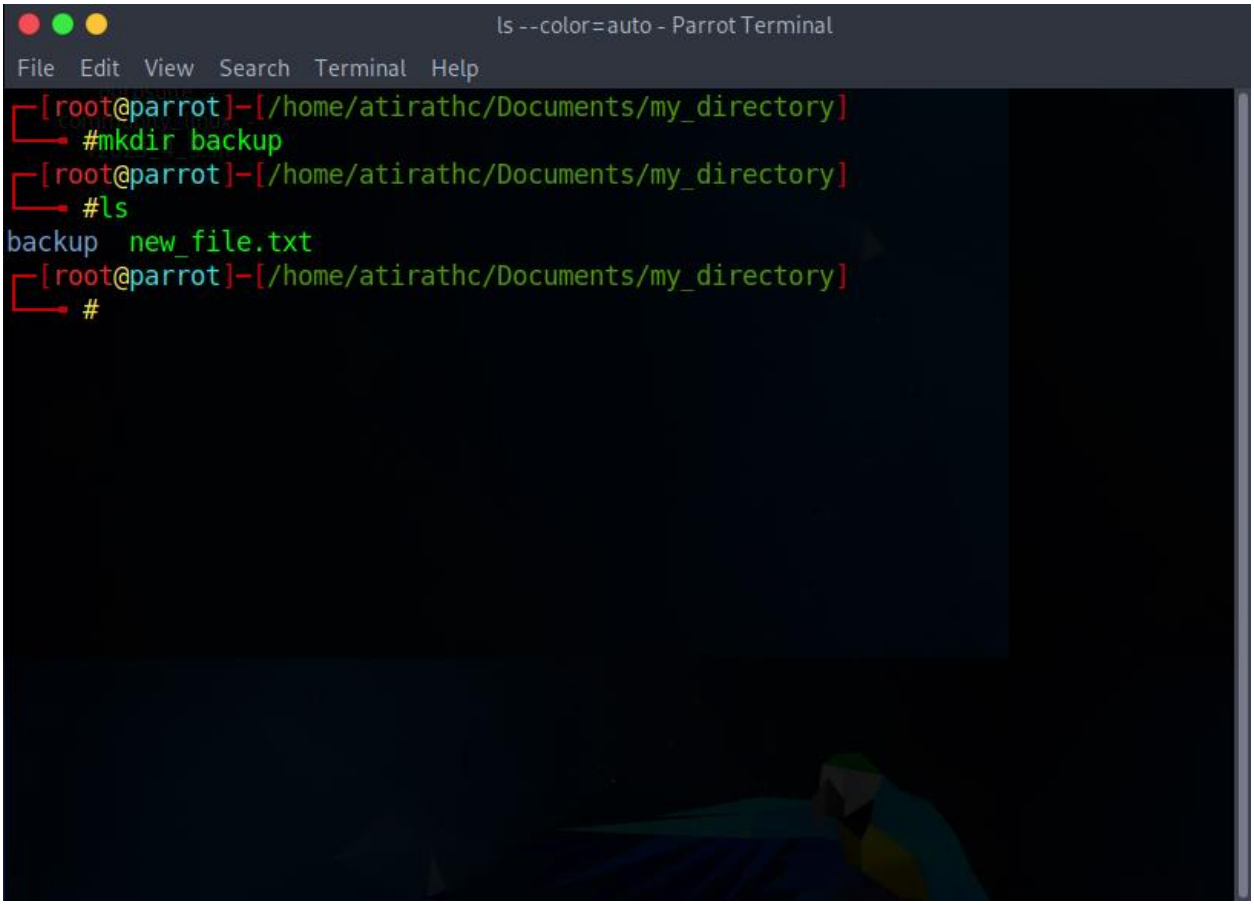
11. Display the content of "new_file.txt" using a pager tool of your choice.

12. 

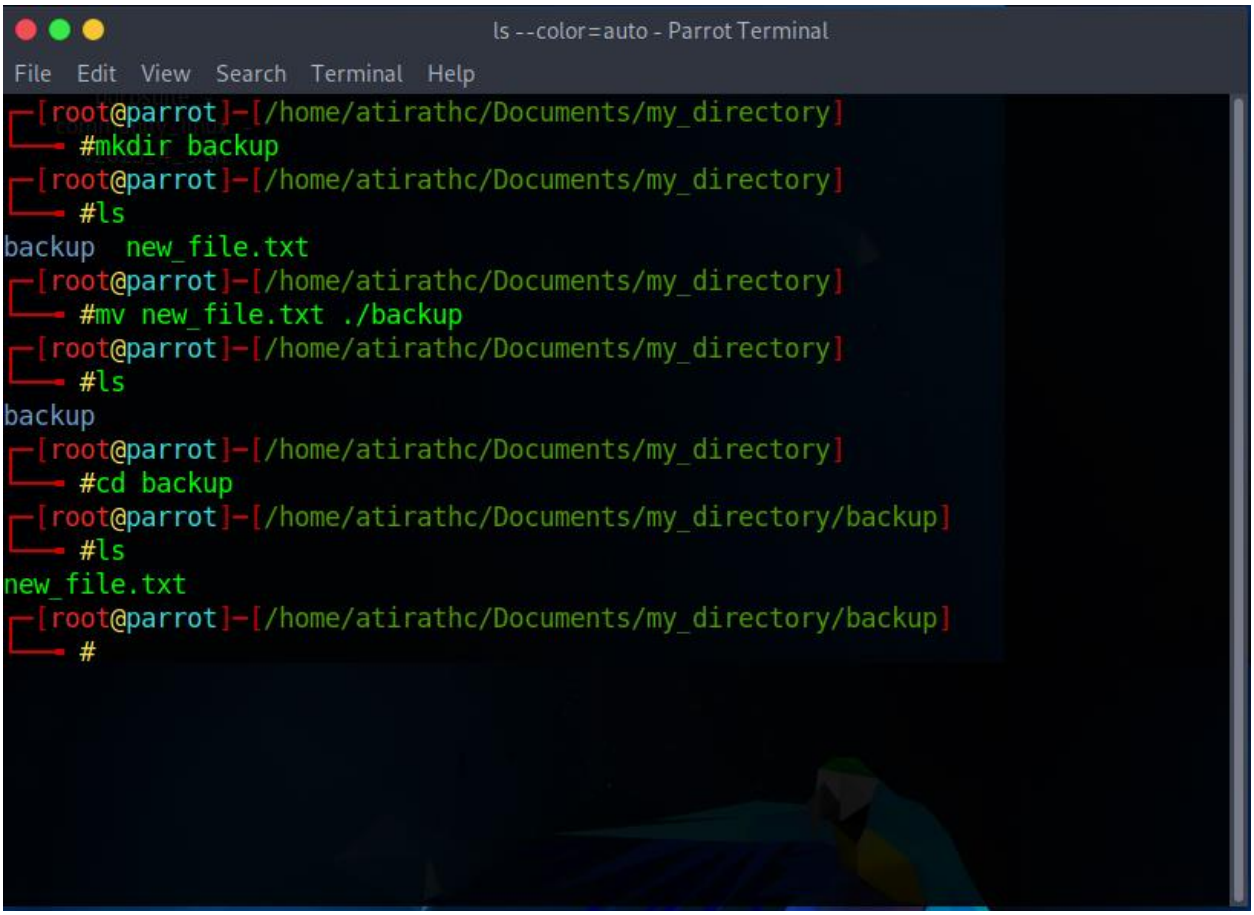
13. Append the text "Hello, World!" to "new_file.txt".

14. 

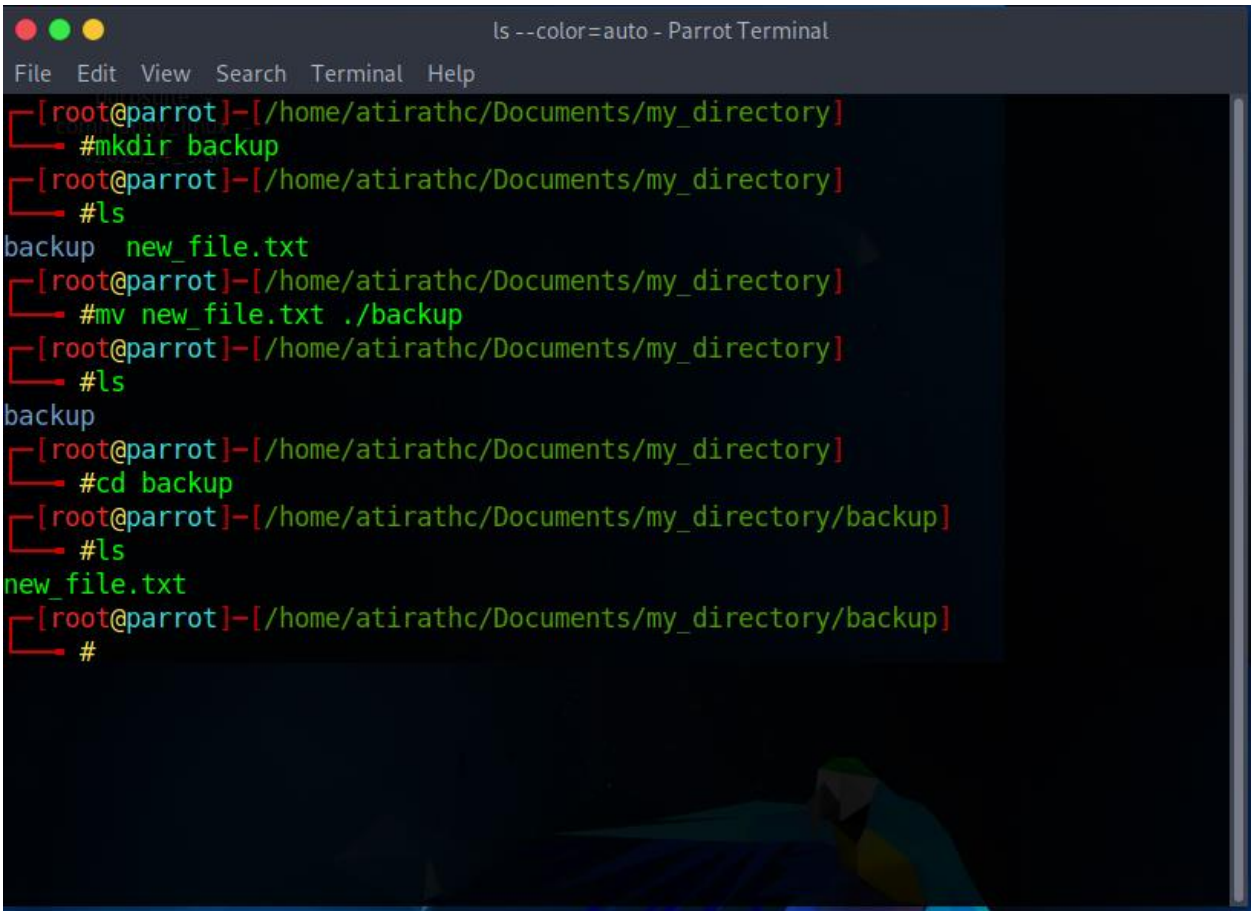
15. Create a new directory called "backup" within "my_directory".

16. 

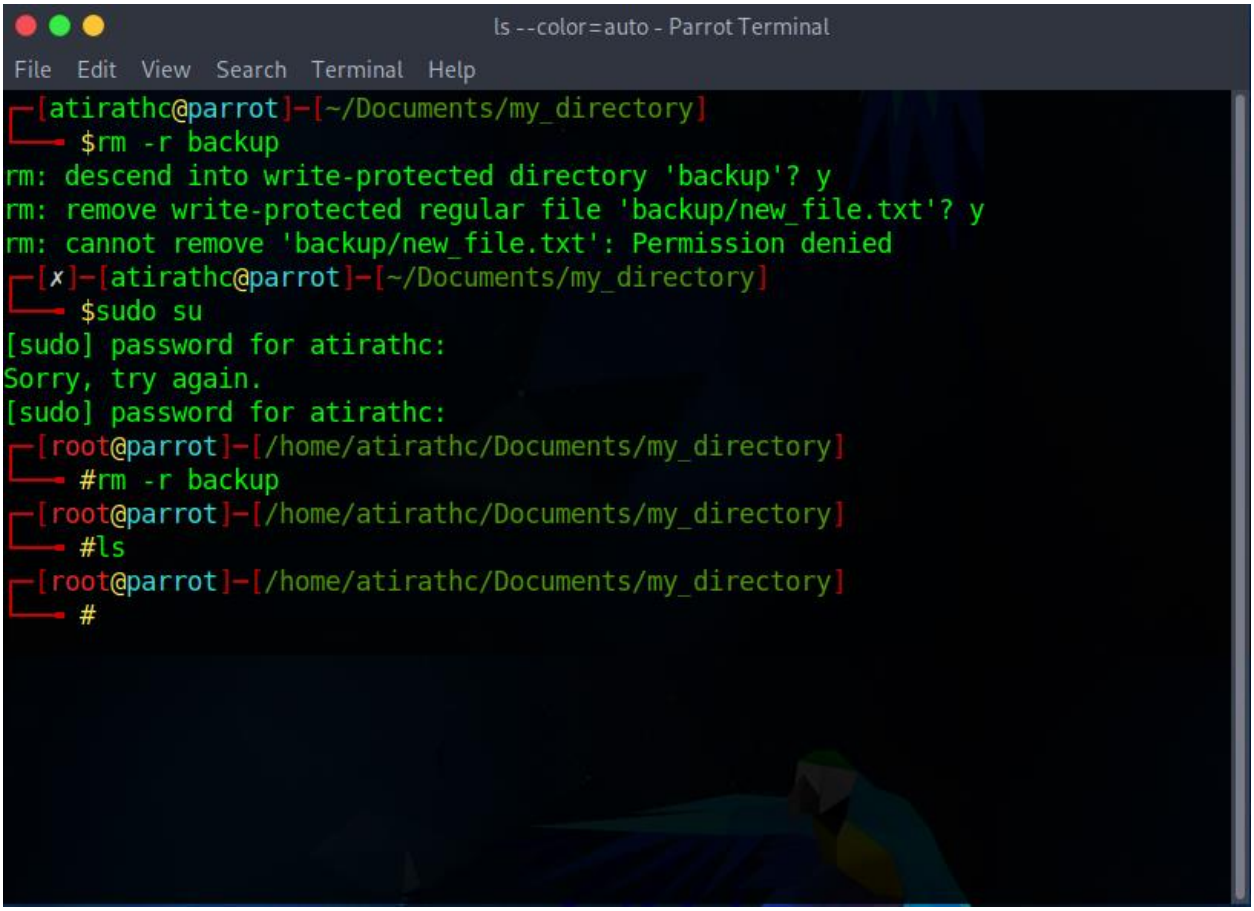
17. Move "new_file.txt" to the "backup" directory.

18. 

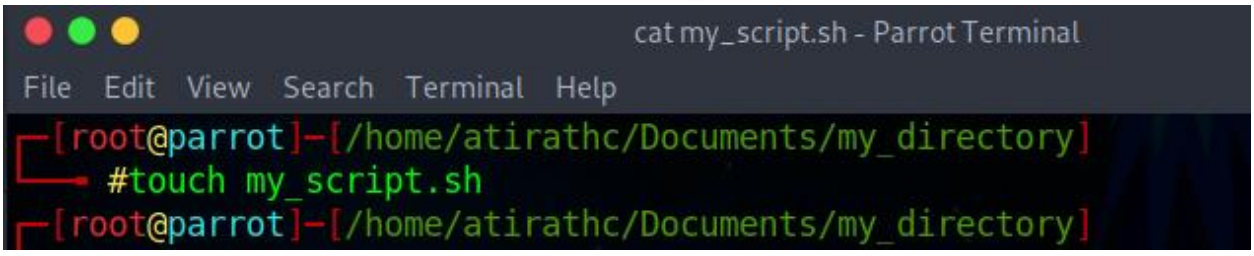
19. Verify that "new_file.txt" is now located in the "backup" directory.

20. 

21. Delete the "backup" directory and all its contents.

22. 

Task 2: Permissions and Scripting

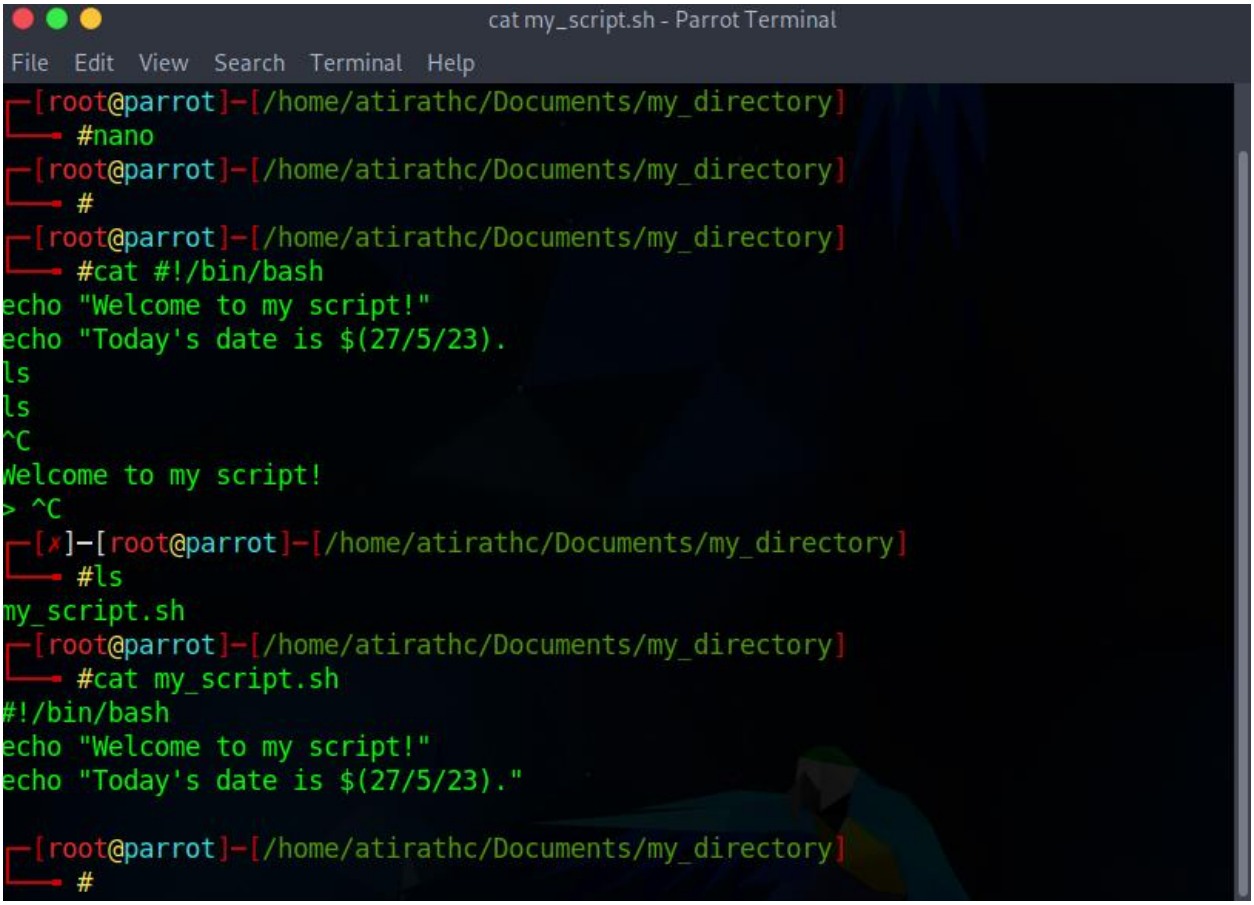
- Create a new file called "my_script.sh".
- 

- Edit "my_script.sh" using a text editor of your choice and add the following lines:

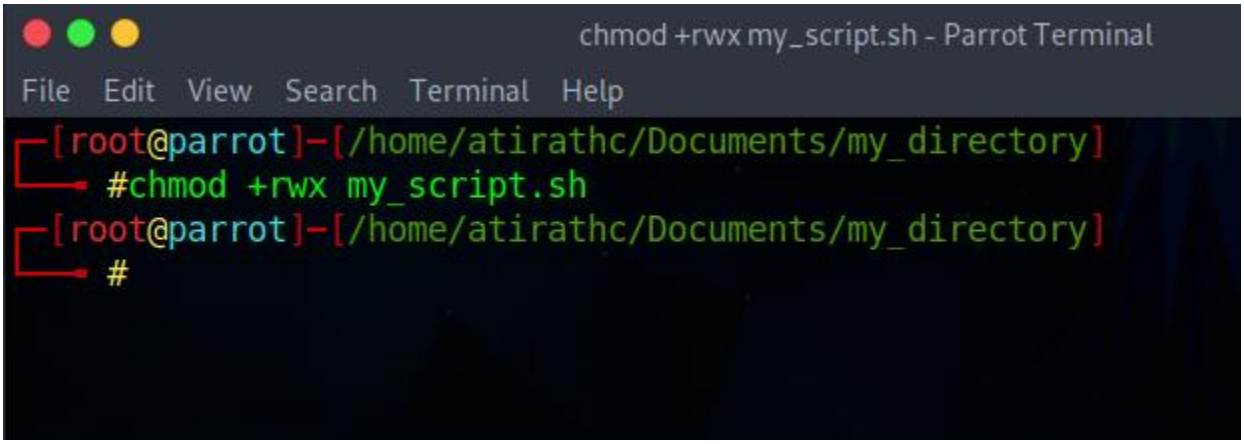
bash

#!/bin/bash
echo "Welcome to my script!"
echo "Today's date is $(date)."

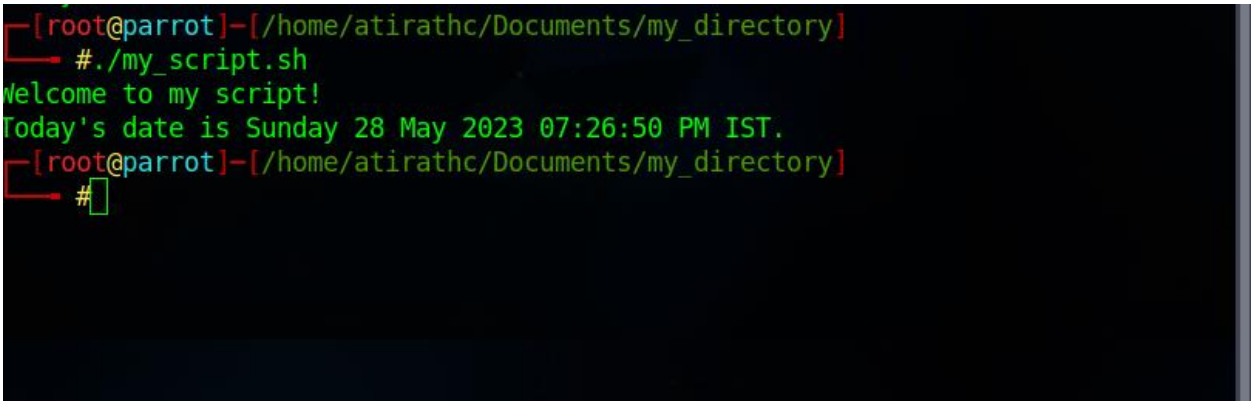
Save and exit the file.



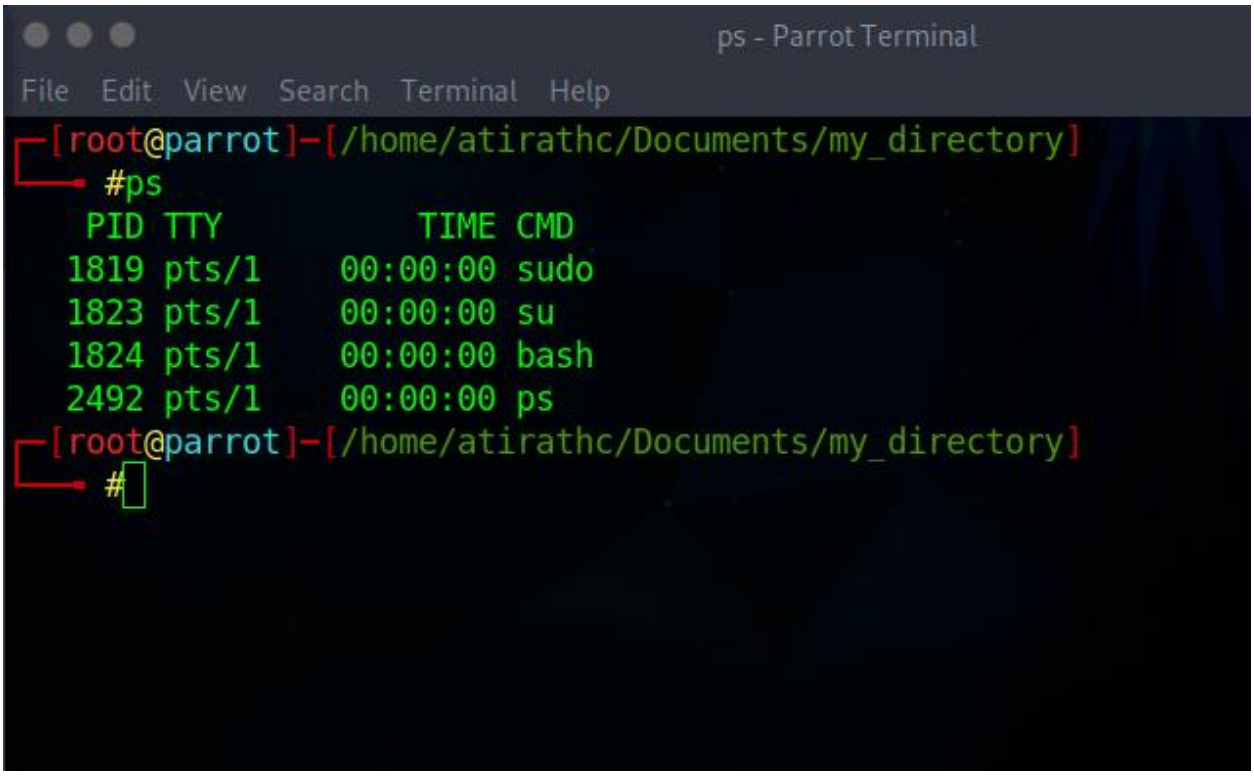
- Make "my_script.sh" executable.



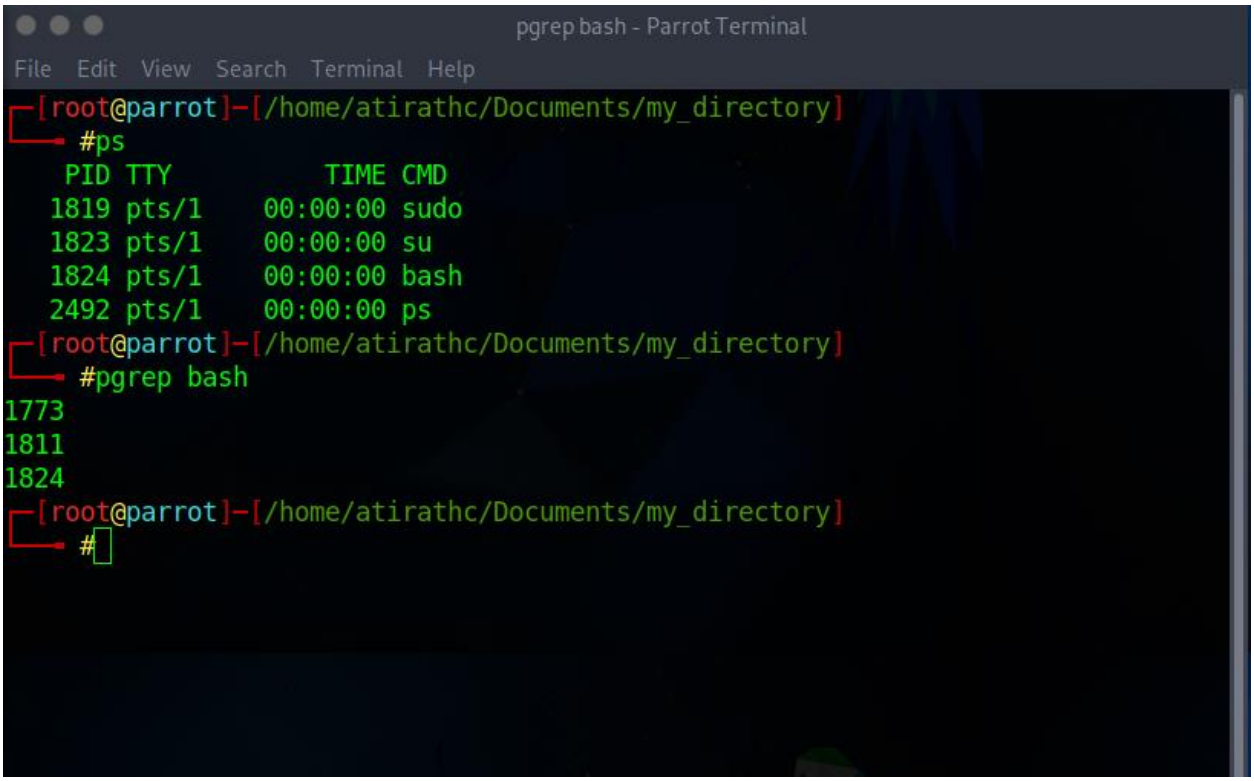
- Run "my_script.sh" and verify that the output matches the expected result.

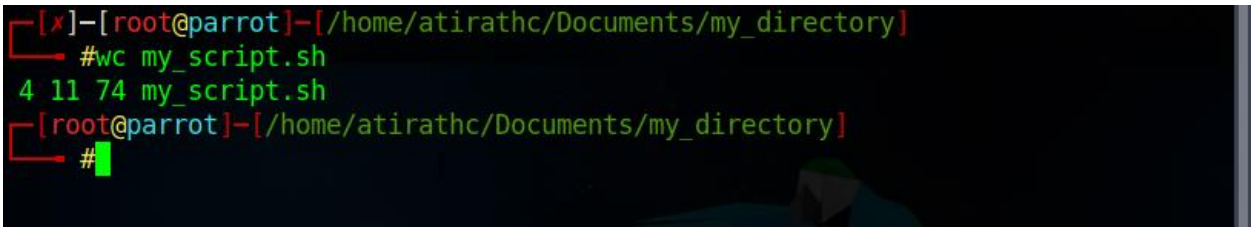
- 

Task 3: Command Execution and Pipelines

- List all the processes running on your system using the "ps" command.
- 

- Use the "grep" command to filter the processes list and display only the processes with "bash" in their name.

- 

- Use the "wc" command to count the number of lines in the filtered output.
- 

Submission:

Provide a document or text file containing the commands used to complete the tasks above, along with any relevant output or screenshots. Include your explanations or observations where necessary.