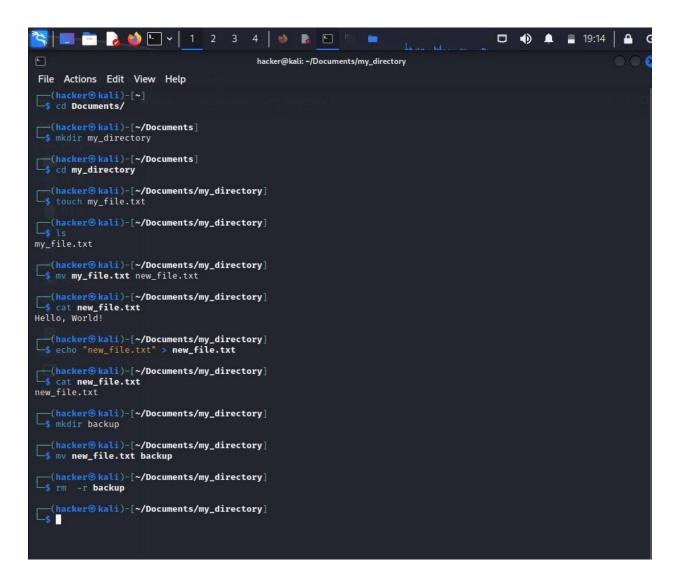
Devara Himabindu 20BEC1353

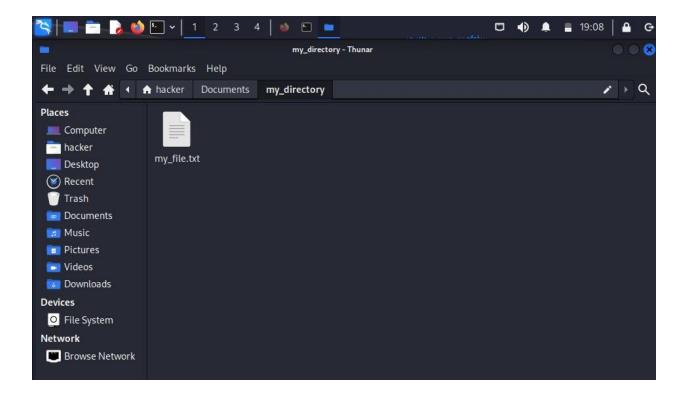
Assignment: Bash Shell Basics

Task 1: File and Directory Manipulation

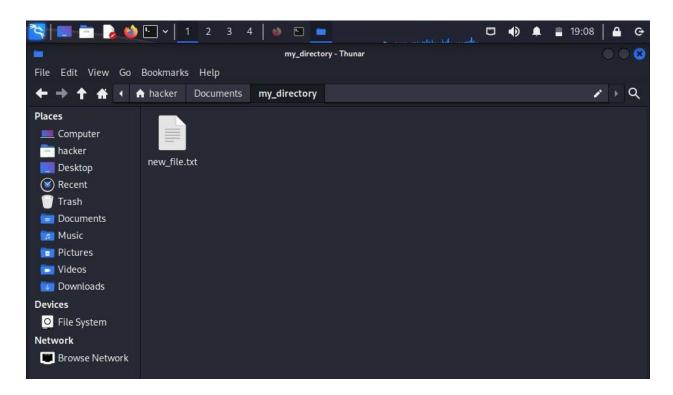
- 1. Create a directory called "my_directory".
- 2. Navigate into the "my_directory".
- 3. Create an empty file called "my_file.txt".
- 4. List all the files and directories in the current directory.
- 5. Rename "my_file.txt" to "new_file.txt".
- 6. Display the content of "new_file.txt" using a pager tool of your choice.
- 7. Append the text "Hello, World!" to "new_file.txt".
- 8. Create a new directory called "backup" within "my_directory".
- 9. Move "new_file.txt" to the "backup" directory.
- 10. Verify that "new_file.txt" is now located in the "backup" directory.
- 11. Delete the "backup" directory and all its contents.



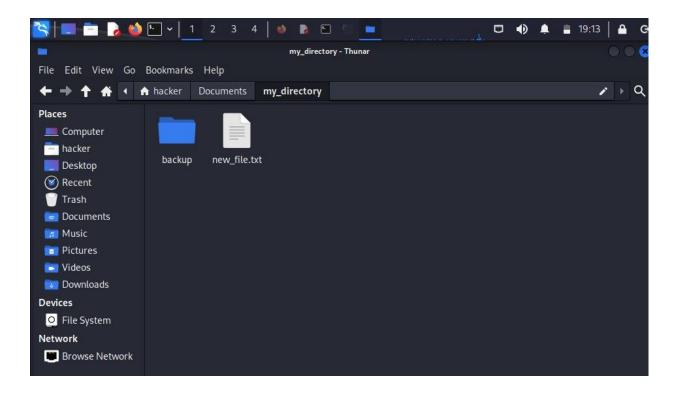
Creating a file name my_file.txt



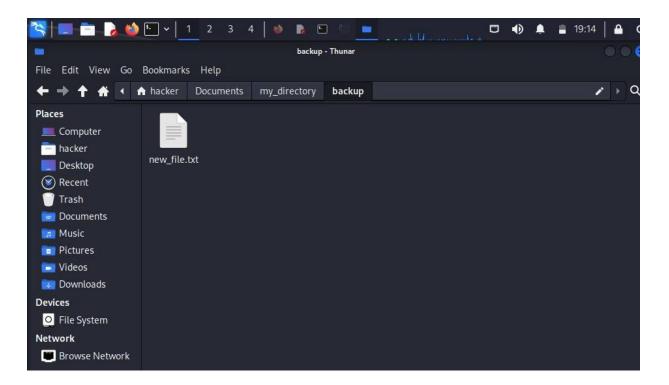
mv my_file.txt to new_file.txt



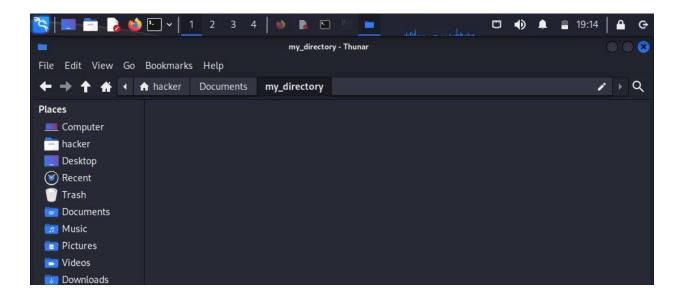
Creating a new directory with name backup in the same directory name my_directory



Move the new_file.txt to backup directory



Remove the backup directory and its contents



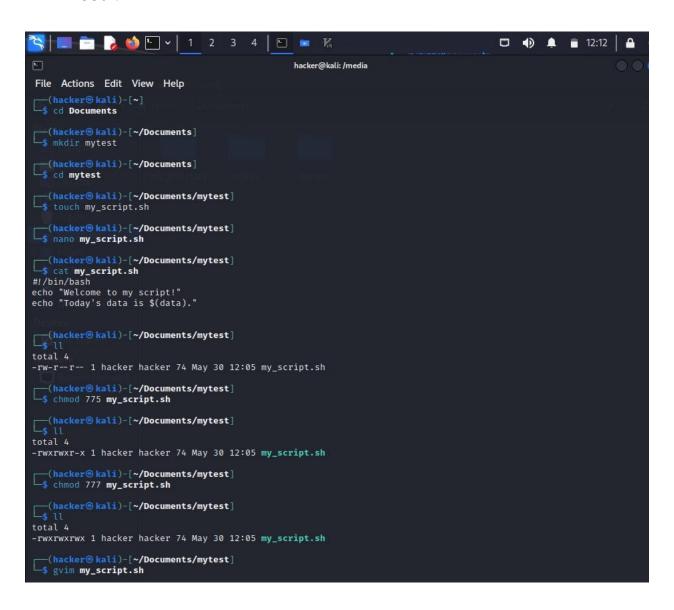
Task 2: Permissions and Scripting

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

to

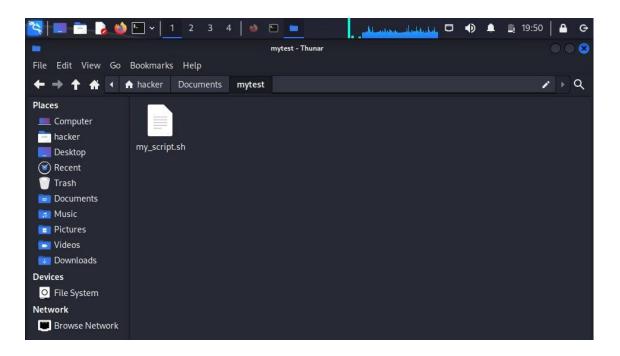
#!/bin/bash
echo "Welcome to my script!"
echo "Today's date is \$(date)."
Save and exit the file.

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

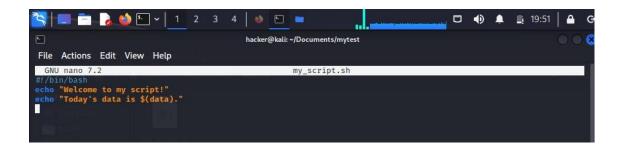


```
Δ
                                                hacker@kali: /media
File Actions Edit View Help
  -(hacker@kali)-[~/Documents/mytest]
cat my_script.sh
#!/bin/bash
echo "Welcome to my script!"
echo "Today's data is $(data)."
(hacker@kali)-[~/Documents/mytest]
-rwxrwxrwx 1 hacker hacker 74 May 30 12:05 my_script.sh
(hacker@ kali)-[~/Documents/mytest]
smy_script.sh
my_script.sh: command not found
/home/hacker/Documents/mytest
(hacker@kali)-[~/Documents/mytest]
which mv
/usr/bin/mv
(hacker@ kali)-[~/Documents/mytest]
secho $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/local/games:/usr/games
(hacker@kali)-[~/Documents/mytest]
└$ ./my_script.sh
Welcome to my script!
./my_script.sh: line 3: data: command not found
Today's data is .
```

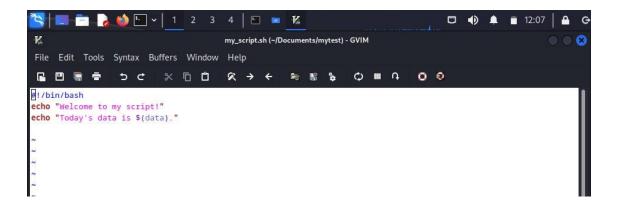
Create a new file with name my_script.sh



nano command window



Running the file "my_script.sh" and verifying that the output matches with the expected output.



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.

cat - to display the content of the file

cat file.txt | sort – to sort the names in alphabetical order

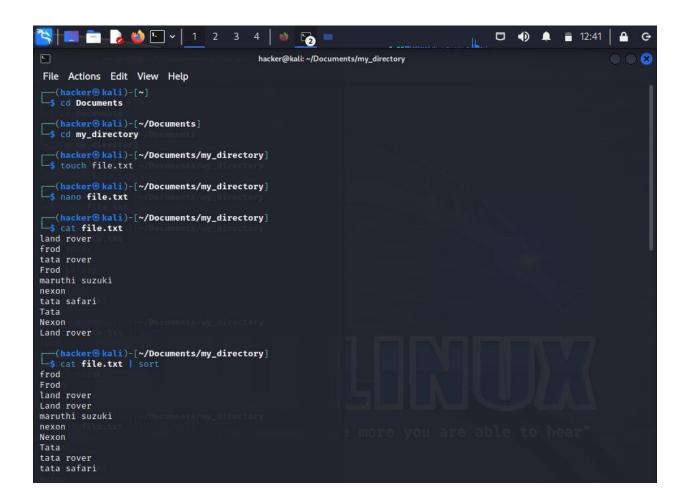
cat file.txt | sort | uniq - to sort the names in alphabetical order and the names should not repeat

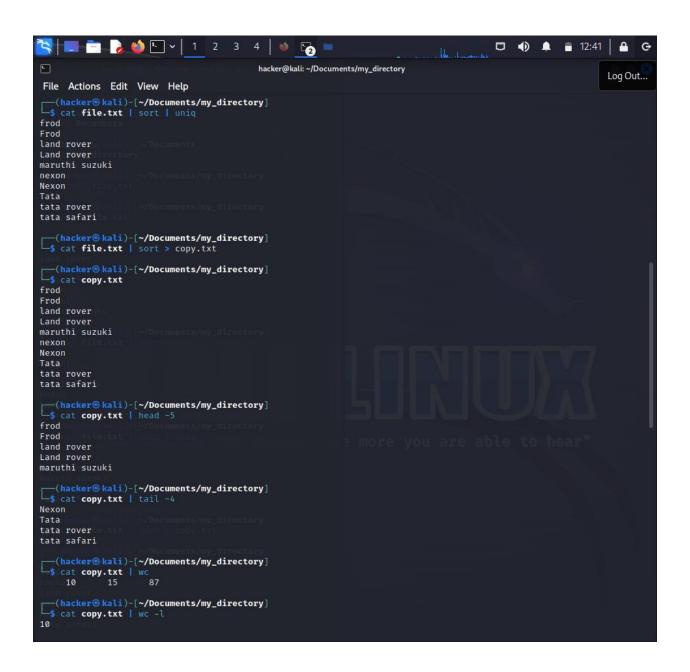
cat file.txt | sort > copy.txt - copy the file content from one file to other head - top of the content in the file

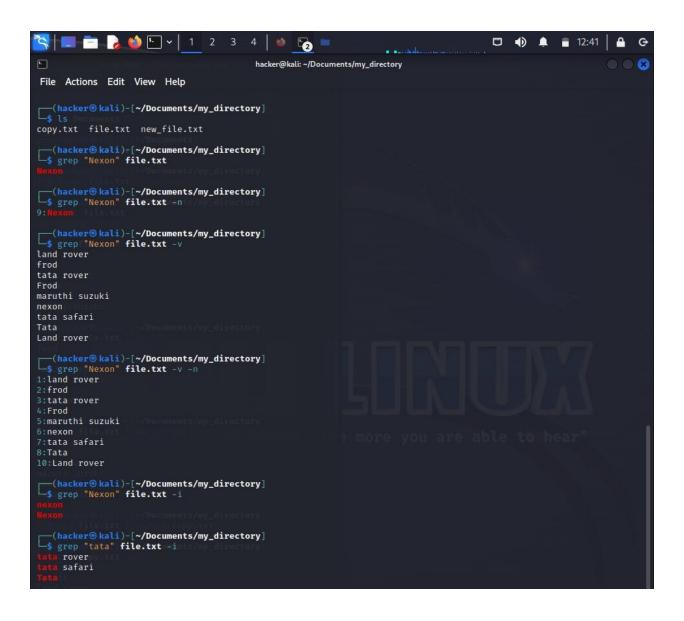
tail - bottom of the content in the file

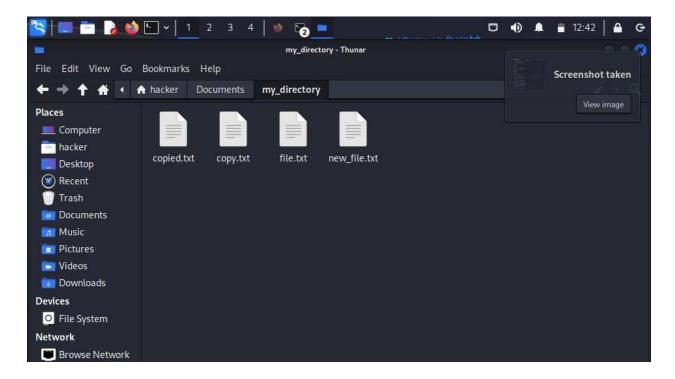
wc - it us a word count

wc -l - number of lines in the list or file









All tasks are performed in kali linux and verified the outputs.