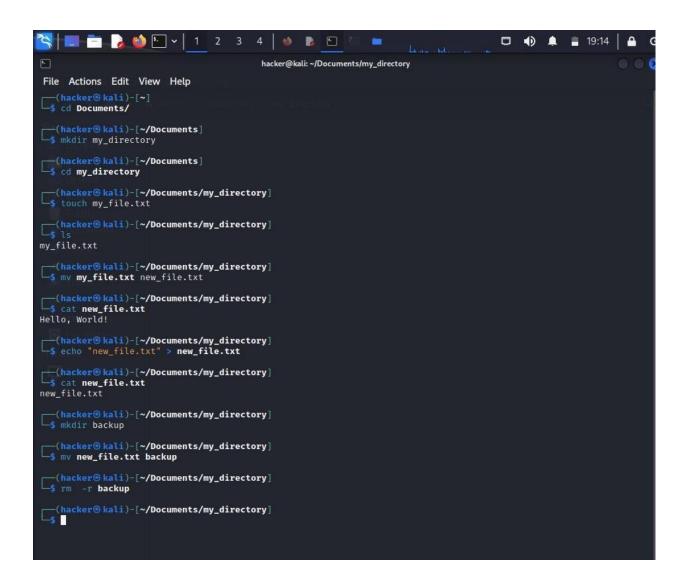
Ananya Sahay 20BCE2790

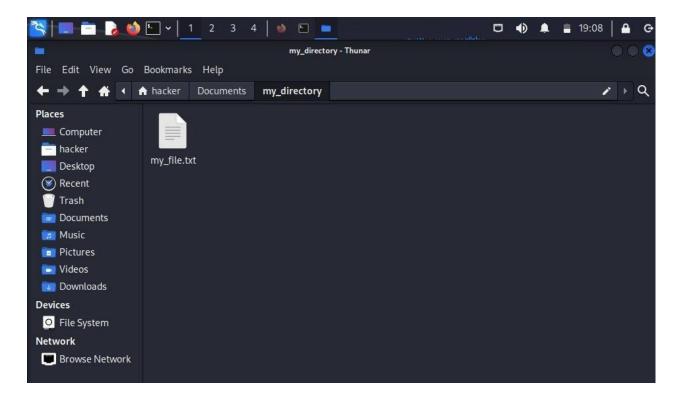
Assignment: Bash Shell BasicsTask

1: File and Directory Manipulation

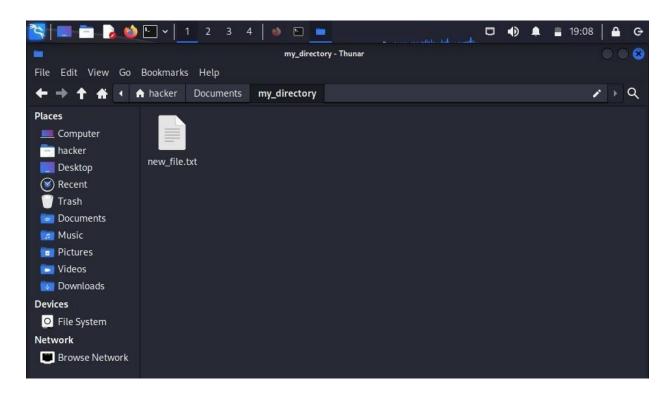
- 1. Create a directory called "my_directory".
- 2. Navigate into the "my_directory".
- 3. Create an empty file called "my_file.txt".
- 4. List all the files and directories in the current directory.
- 5. Rename "my_file.txt" to "new_file.txt".
- 6. Display the content of "new_file.txt" using a pager 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.



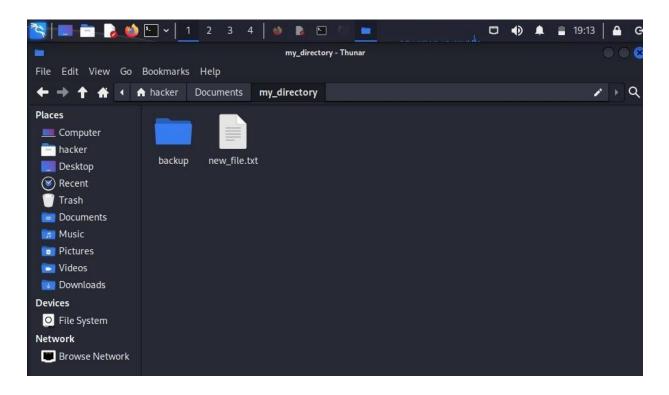
Creating a file name my_file.txt



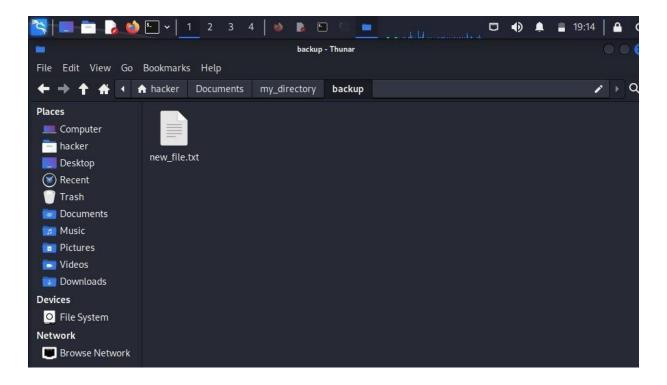
mv my_file.txt to new_file.txt



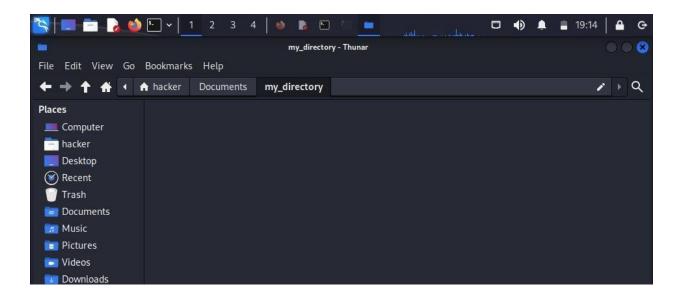
Creating a new directory with name backup in the same directory name my_directory



Move the new_file.txt to backup directory



Remove the backup directory and its contents



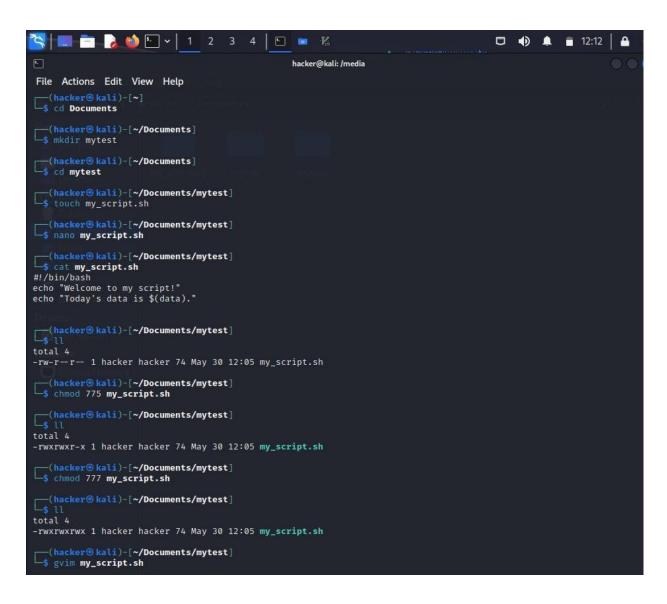
Task 2: Permissions and Scripting

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

to

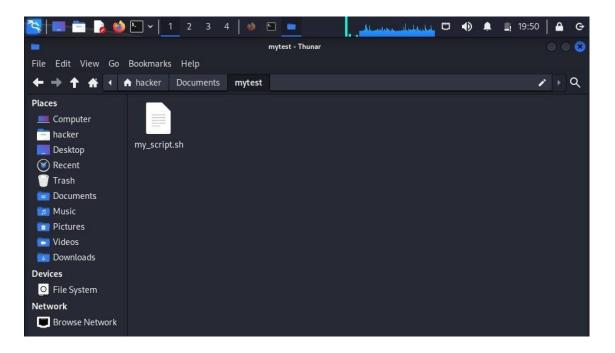
#!/bin/bash
echo "Welcome to my script!" echo
"Today's date is \$(date)."Save and
exit the file.

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

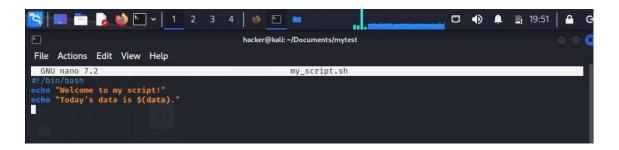


```
陰 🔚 🛅 🔪 🐿 🖭 🗸 1 2 3 4 🕒 🐚 🎉
                                                                                      hacker@kali: /media
File Actions Edit View Help
  -(hacker@kali)-[~/Documents/mytest]
cat my_script.sh
#!/bin/bash
echo "Welcome to my script!"
echo "Today's data is $(data)."
(hacker@kali)-[~/Documents/mytest]
-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
(hacker@kali)-[~/Documents/mytest]
/home/hacker/Documents/mytest
  -(hacker@kali)-[~/Documents/mytest]
_s which mv
/usr/bin/mv
(hacker@ kali)-[~/Documents/mytest]
secho $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/usr/local/games:/usr/games
  -(hacker@kali)-[~/Documents/mytest]
Welcome to my script!
./my_script.sh: line 3: data: command not found
Today's data is .
```

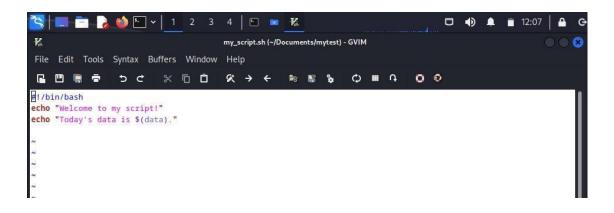
Create a new file with name my_script.sh



nano command window



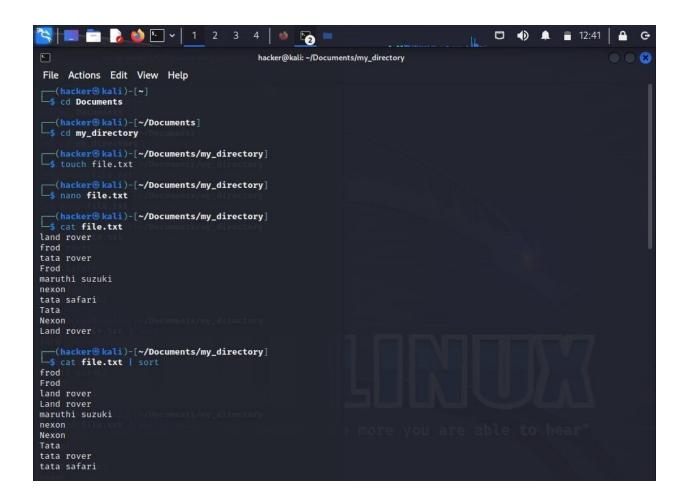
Running the file "my_script.sh" and verifying that the output matches withthe expected output.

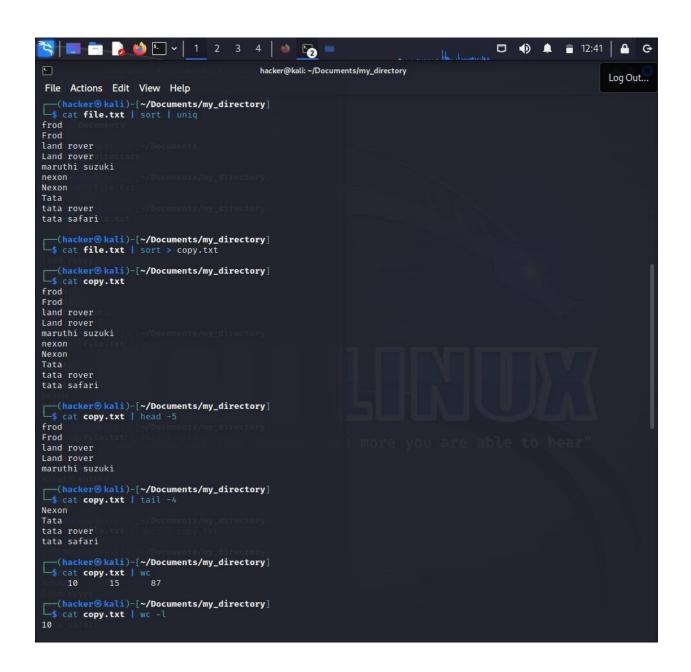


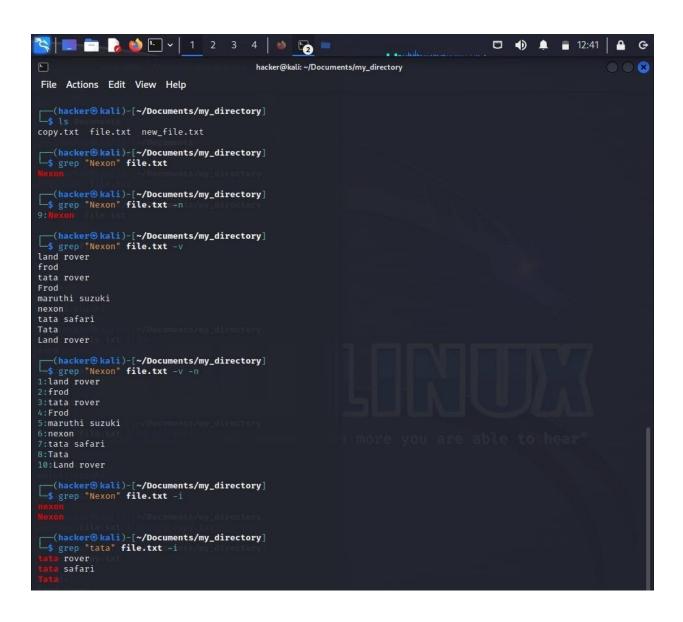
Task 3: Command Execution and Pipelines

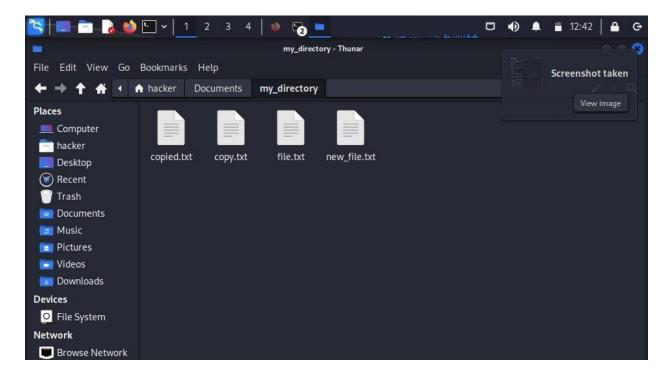
- List all the processes running on your system using the "ps" command.
- Use the "grep" command to filter the processes list and display onlythe processes with "bash" in their name.
- Use the "wc" command to count the number of lines in the filtered output.

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 otherhead
– top of the content in the file
tail – bottom of the content in the filewc
– 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.