Assignment 2: Bash Shell Basics

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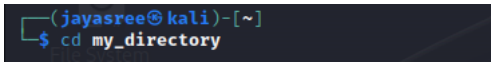
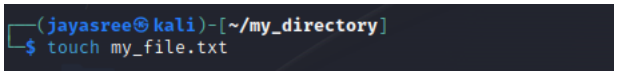
Task 1: File and Directory Manipulation

1. Create a directory called "my_directory".

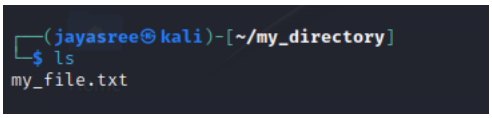
2. Navigate into the "my_directory".



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

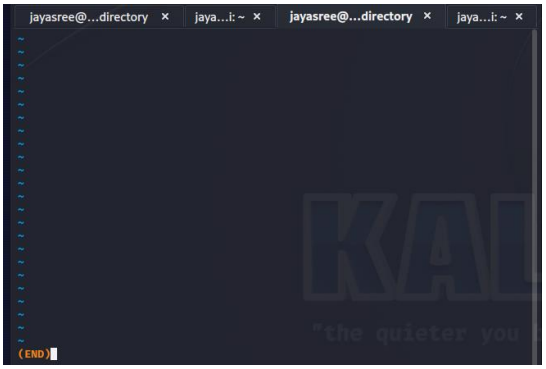


4. List all the files and directories in the current directory.



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".

```
┌──(jayasree㉿kali)-[~]
└─$ nano new_file.txt
```

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

```
┌──(jayasree㉿kali)-[~]
└─$ mkdir backup
```

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

```
┌──(jayasree㉿kali)-[~]
└─$ mv new_file.txt backup/
```

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

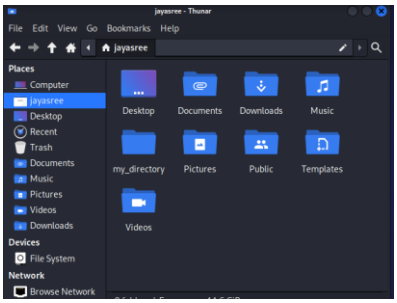
```
┌──(jayasree㉿kali)-[~]
└─$ ls backup/
new_file.txt
```

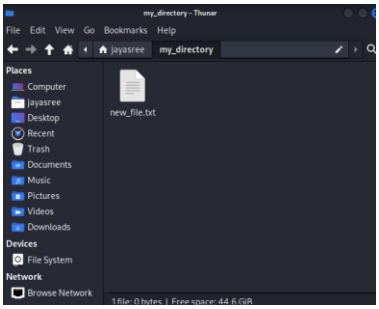
11. Delete the "backup" directory and all its contents.

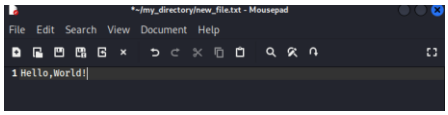
```
┌──(jayasree㉿kali)-[~]
└─$ rm -r backup

┌──(jayasree㉿kali)-[~]
└─$ ls backup/
ls: cannot access 'backup/': No such file or directory
```

Output:







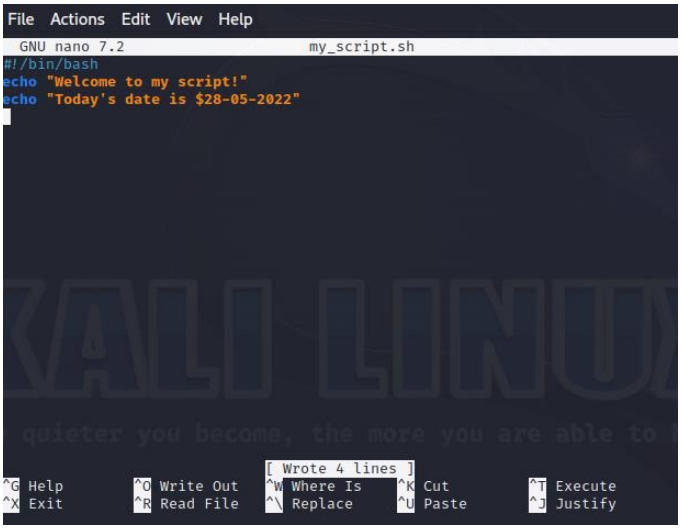
Task 2: Permissions and Scripting

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

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

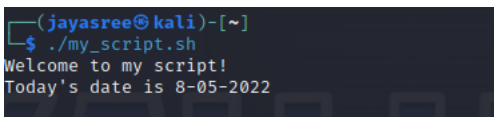
bash

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



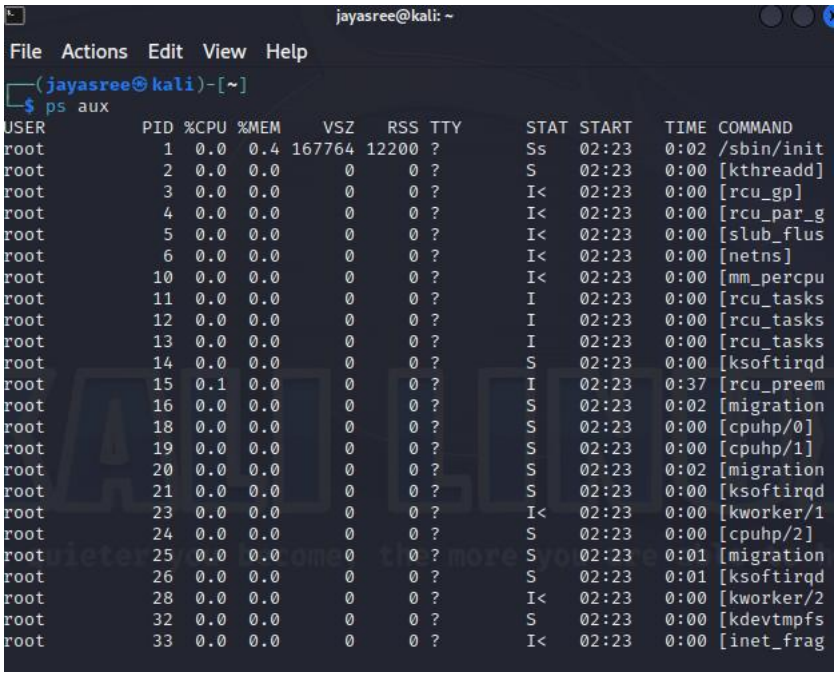
- Make "my_script.sh" executable.

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

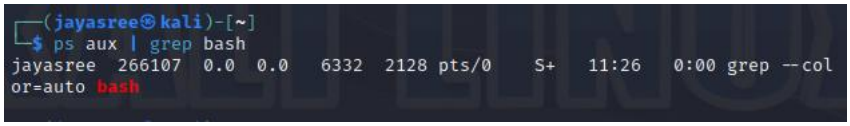


Task 3: Command Execution and Pipelines

- 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.