ASSIGNMENT - 2

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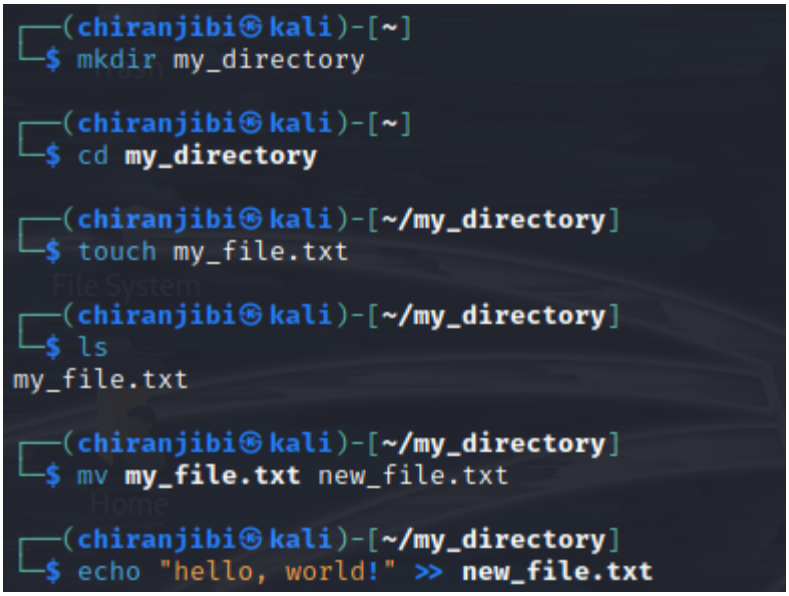
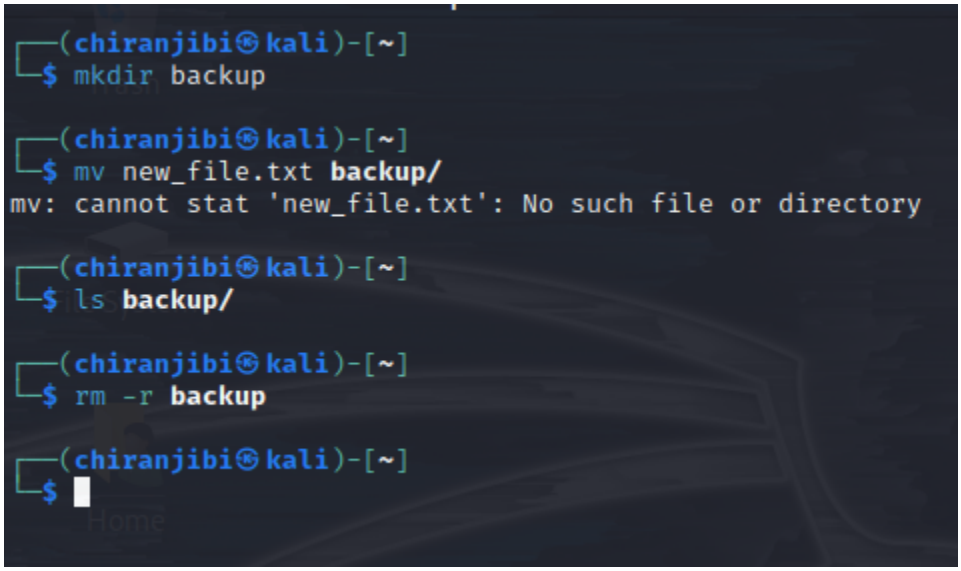
Bash Shell Basics

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.

COMMANDS





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.

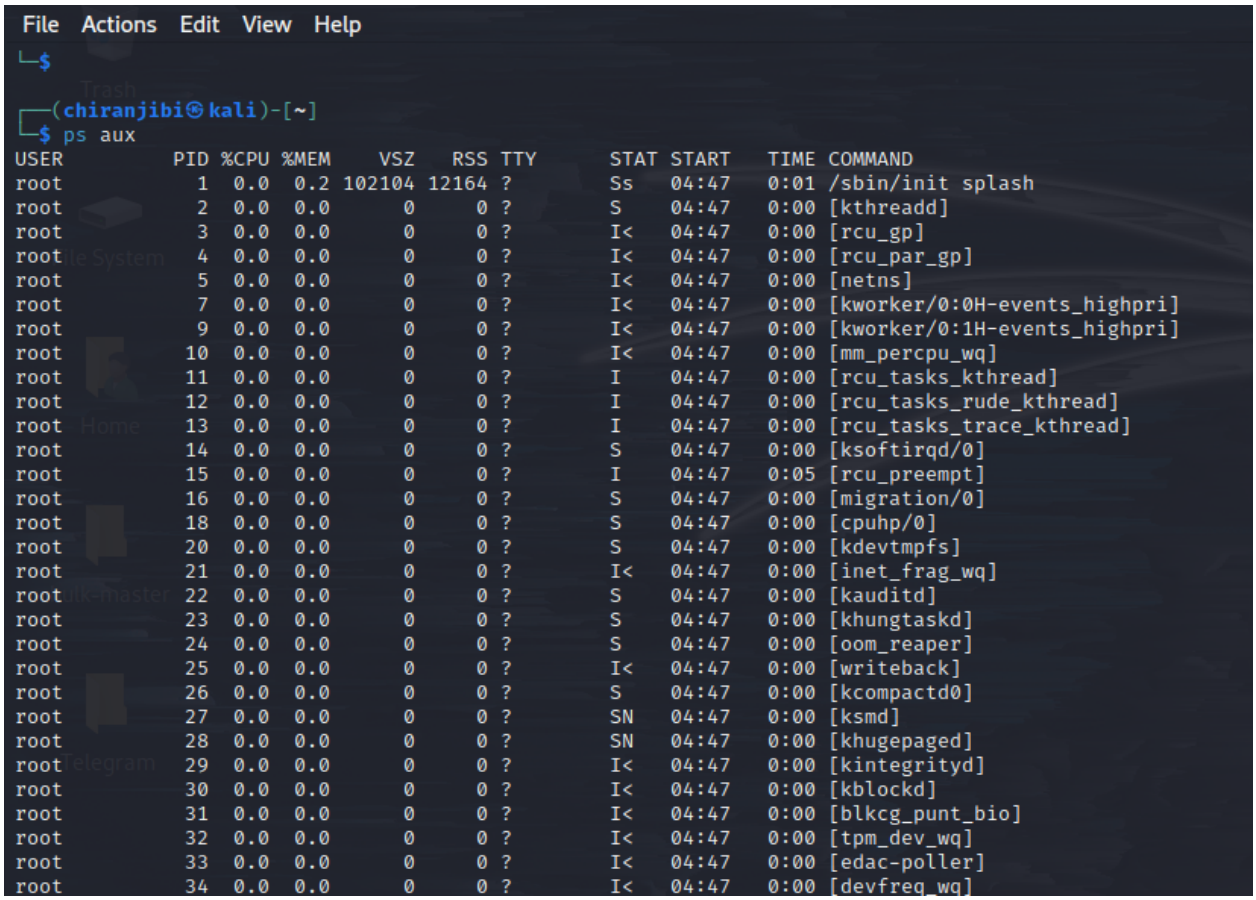
```
┌──(chiranjibi㉿kali)-[~]
└─$ touch my_script.sh

┌──(chiranjibi㉿kali)-[~]
└─$ less new_file.txt
new_file.txt: No such file or directory

┌──(chiranjibi㉿kali)-[~]
└─$ nano my_script.sh

┌──(chiranjibi㉿kali)-[~]
└─$ chmod +x my_script.sh

┌──(chiranjibi㉿kali)-[~]
└─$ ./my_script.sh
./my_script.sh: 1: welcome: not found
./my_script.sh: 3: Syntax error: Unterminated quoted string

┌──(chiranjibi㉿kali)-[~]
└─$ nano my_script.sh

┌──(chiranjibi㉿kali)-[~]
└─$ ./my_script.sh
welcome to my script!
today's date is Sun May 28 07:46:49 AM EDT 2023.

┌──(chiranjibi㉿kali)-[~]
└─$
```

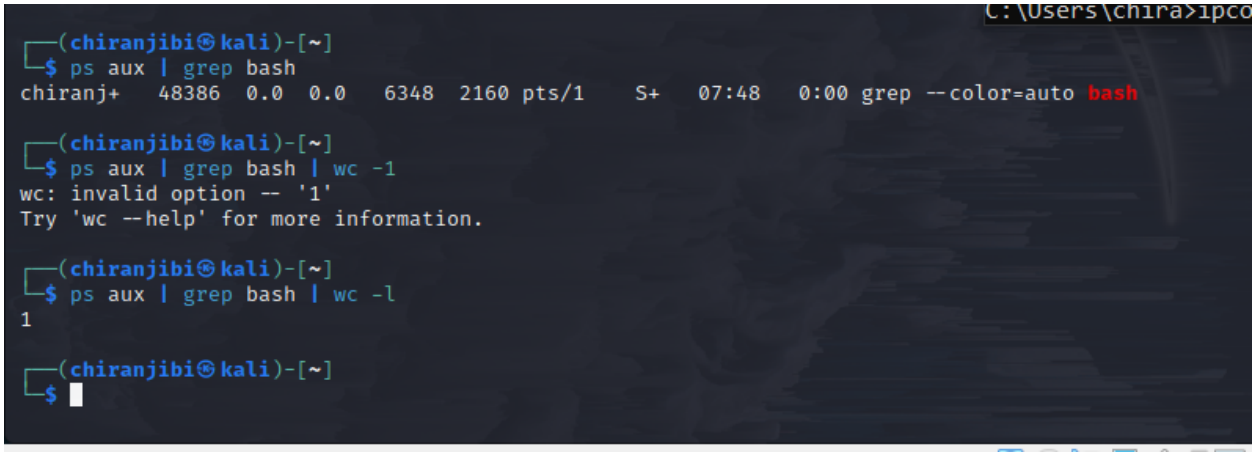
NANO

```
File  Actions  Edit  View  Help
  GNU nano 6.3
echo "welcome to my script!"
echo "today's date is $(date)."
```

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.




C:\Users\chira>ipco
┌──(chiranjibi㉿kali)-[~]
└─$ ps aux | grep bash
chiranj+   48386 0.0 0.0   6348 2160 pts/1   S+   07:48   0:00 grep --color=auto bash
┌──(chiranjibi㉿kali)-[~]
└─$ ps aux | grep bash | wc -1
wc: invalid option -- '1'
Try 'wc --help' for more information.
┌──(chiranjibi㉿kali)-[~]
└─$ ps aux | grep bash | wc -l
1
┌──(chiranjibi㉿kali)-[~]
└─$