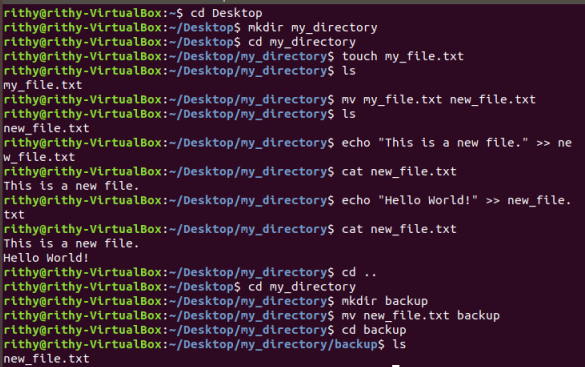
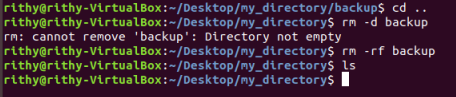
**Assignment: Bash Shell Basics**

**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.



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



**Task 2: Permissions and Scripting**

* Create a new file called "my\_script.sh".

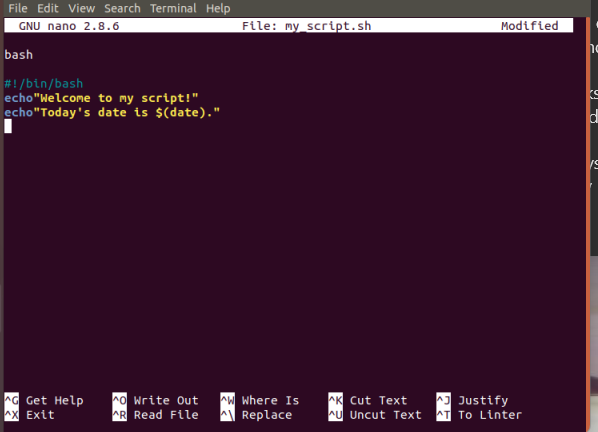


* Edit "my\_script.sh" using a text editor of your choice and add the following lines:

**bash**

**#!/bin/bash**

**echo "Welcome to my script!"**

**echo "Today's date is $(date)."** 

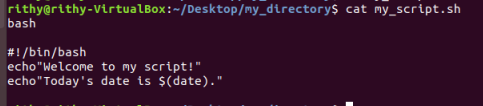
**Save and exit the file.**

* Make "my\_script.sh" executable.



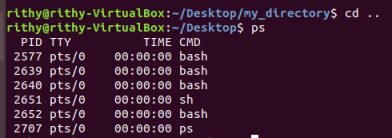
* Run "my\_script.sh" and verify that the output matches the expected result.





**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.