ASSIGNMENT – 2

TEAM MEMBERS:

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MEMBER 2: YARRAMSETTY VENKATA RAVI KIRAN (20FE1A03B3).

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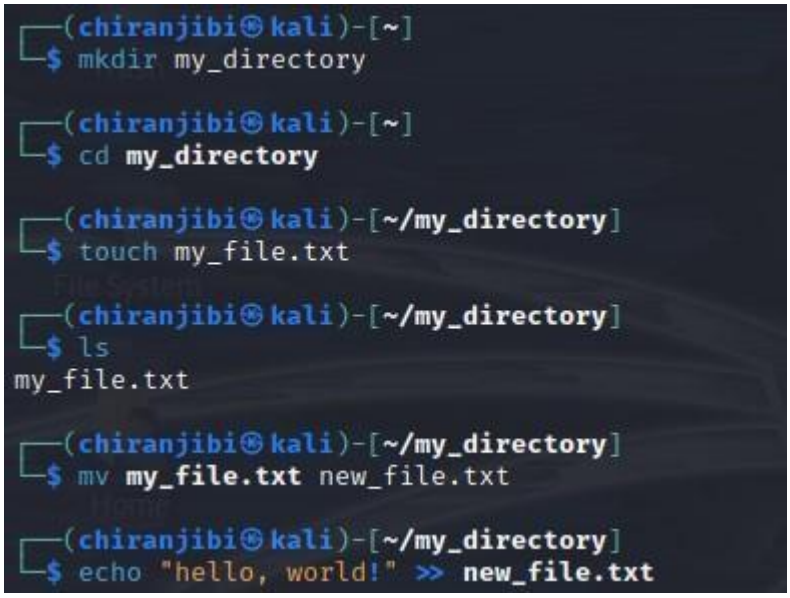
PROJRCT REG NO: SBAP0007919.

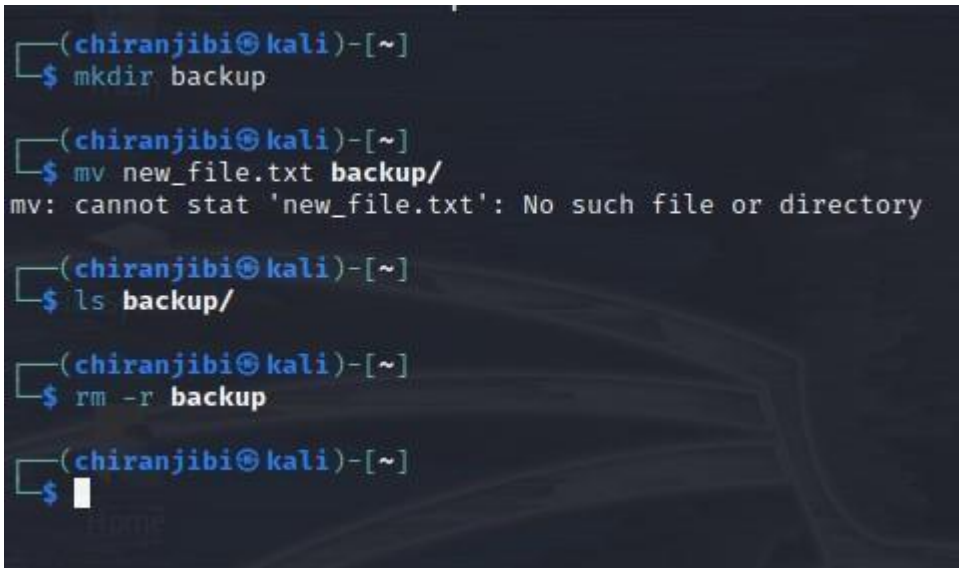
Bash Shell Basics

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


(chiranjibi㉿kali)-[~]
$ mkdir my_directory
(chiranjibi㉿kali)-[~]
$ cd my_directory
(chiranjibi㉿kali)-[~/my_directory]
$ touch my_file.txt
(chiranjibi㉿kali)-[~/my_directory]
$ ls
my_file.txt
(chiranjibi㉿kali)-[~/my_directory]
$ mv my_file.txt new_file.txt
(chiranjibi㉿kali)-[~/my_directory]
$ echo "hello, world!" >> new_file.txt


(chiranjibi㉿kali)-[~]
$ mkdir backup
(chiranjibi㉿kali)-[~]
$ mv new_file.txt backup/
mv: cannot stat 'new_file.txt': No such file or directory
(chiranjibi㉿kali)-[~]
$ ls backup/
(chiranjibi㉿kali)-[~]
$ rm -r backup
(chiranjibi㉿kali)-[~]
$

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

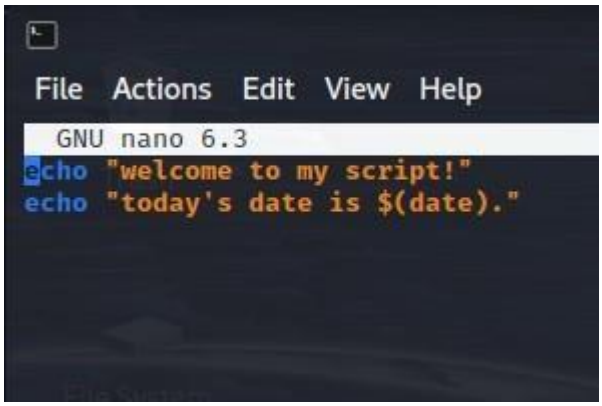
"Today's date is $(date)."

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
```

NANO



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.