EXTERNSHIP PROGRAM – CYBER SECURITY AND ETHICAL HACKING

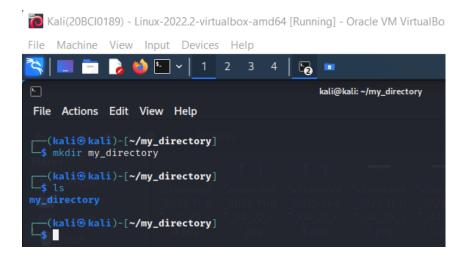
ASSIGNMENT II: BASH SHELL BASICS

TASK1. File and directory manipulationsss

1. Create a directory called "my_directory".

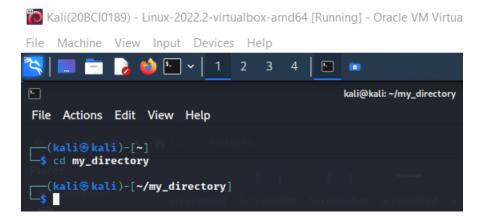
mkdir my_directory

ls



2. Navigate into the "my directory".

cd my_directory



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

touch my_file.txt

ls

```
(kali@ kali)-[~/my_directory]
$ touch my_file.txt

(kali@ kali)-[~/my_directory]
$ ls
my_directory my_file.txt

(kali@ kali)-[~/my_directory]
$ ]
```

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

ls -la

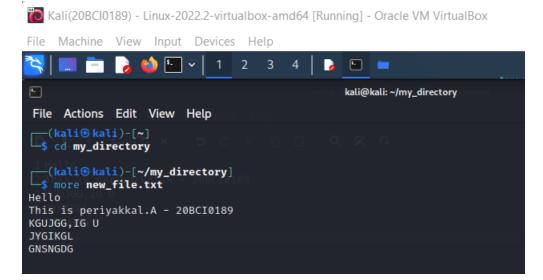
5 . Rename "my file.txt" to "new file.txt".

mv my_file.txt new_file.txt

ls

6 . Display the content of "new_file.txt" using a pager tool of your choice. more new file.txt

(to display content of new file.txt, I have added random words to it)



7. Append the text "Hello, World!" to "new_file.txt". echo 'Hello, World!' >> new file.txt

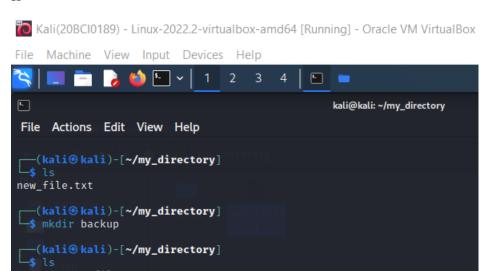
📆 Kali(20BCl0189) - Linux-2022.2-virtualbox-amd64 [Running] - Oracle VM VirtualBo File Machine View Input Devices Help **E** kali@kali: ~/my_directory File Actions Edit View Help –(kali⊛kali)-[~] -\$ cd my_directory (kali@kali)-[~/my_directory]
\$ echo 'Hello, World!' >> new_file.txt (kali@ kali)-[~/my_directory]
\$ cat new_file.txt Hello This is periyakkal.A - 20BCI0189 KGUJGG, IG U JYGIKGL **GNSNGDG** Hello, World! -(kali®kali)-[~/my_directory]

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

1s

mkdir backup

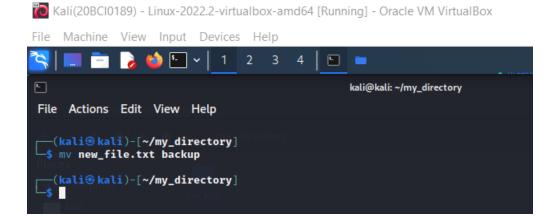
ls



9. Move "new file.txt" to the "backup" directory.

mv new_file.txt backup

backup new_file.txt

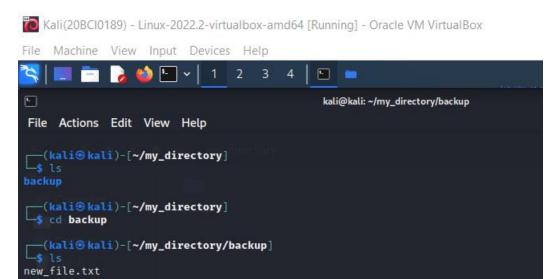


10. Verify that "new file.txt" is now located in the "backup" directory.

ls

cd backup

ls

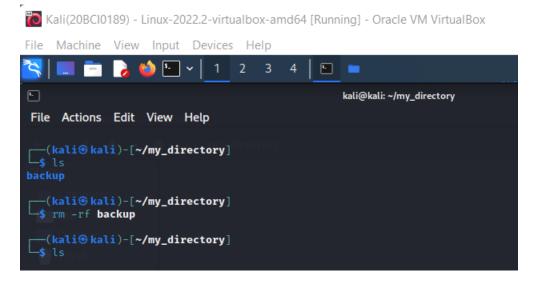


11. Delete the "backup" directory and all its contents.

ls

rm -rf backup

ls



r : recursive (remove directories and their contents recursively)

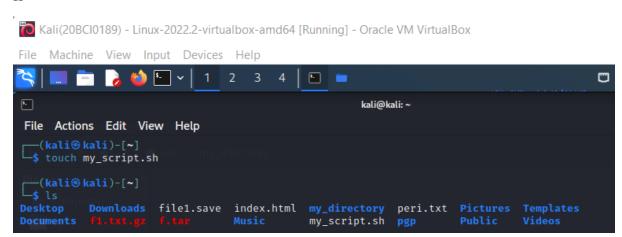
f: force (ignore non-existent file, never prompt)

TASK 2: PERMISSIONS AND SCRIPTING

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

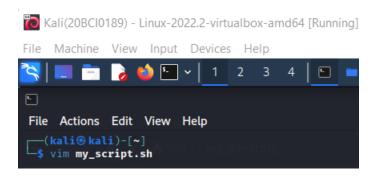
touch my_script.sh

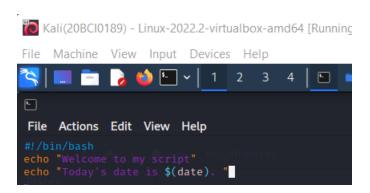
ls



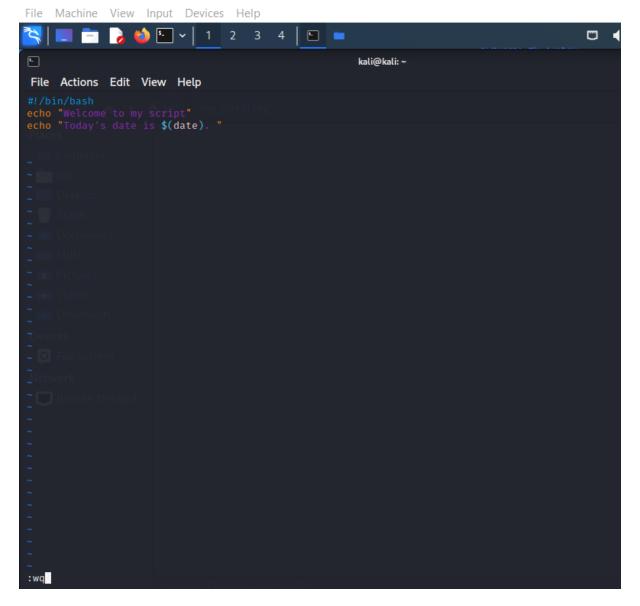
2. Edit my_script.sh using any text editor, add the given lines, make it executable, and run.

vim my_script.sh
#!/bin/bash
echo "Welcome to my script!"
echo "Today's date is \$(date)."





Kali(20BCl0189) - Linux-2022.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

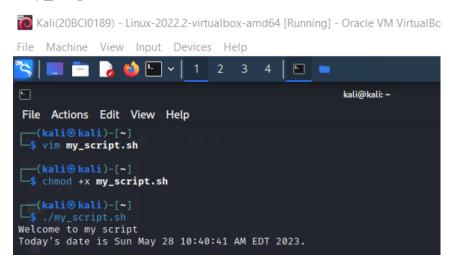


w: save changes made to the file

q: exit Vim

chmod +x my script.sh

./my script.sh



TASK 3: COMMAND EXECUTION AND PIPELINES

1. List all the processes running on your system using the "ps" command.

ps aux

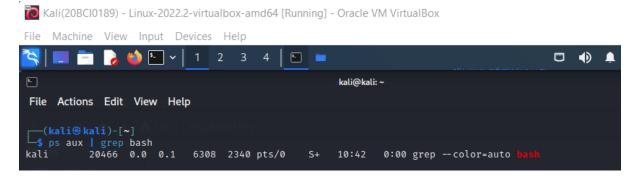
The ps aux command is used to display a detailed list of all running processes on a Linux or Unix system.

2.Use the "grep" command to filter the processes list and display only the processes with

"bash" in their name.

ps aux | grep bash

(grep is used for matching a pattern or string)



3.Use the "wc" command to count the number of lines in the filtered output.

ps aux | grep bash | wc -l

