# **Assignment 2 : Bash Shell Basics**

#### :INSTRUCTIONS:

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.

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### **COMMANDS AND SCREENSHOTS:**

#### **Task 1: File and Directory Manipulation**

1. Create a directory called "my directory".

```
mkdir my_directory

___(kali@ kali)-[~]

_$ mkdir my_directory
```

2. Navigate into the "my directory".

```
cd my_directory

___(kali⊛ kali)-[~]

_$ cd my_directory
```

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

```
touch my_file.txt

—(kali⊛ kali)-[~/my_directory]

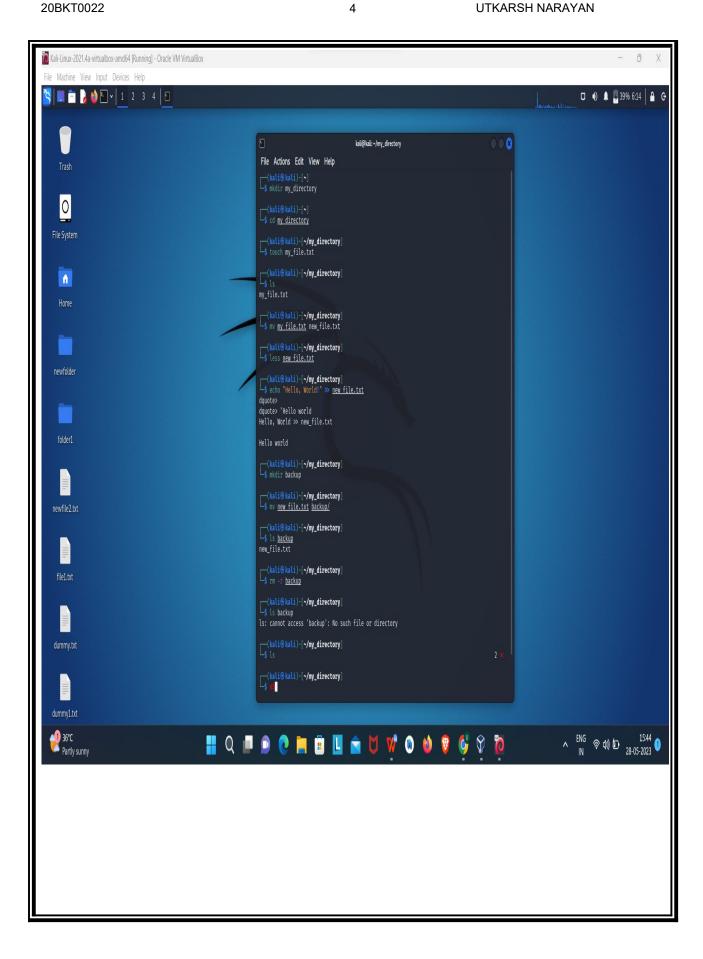
—$ touch my_file.txt
```

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

ls

(kali⊛ kali)-[~/my_o	directory]
└─\$ Is my_file.txt	
<b>,</b>	
5. Rename "my_file.txt"	to "new_file.txt".
mv my_file.txt new_file	e.txt
(Inalia Inali) E (reserve	din -4 4
(kali⊛ kali)-[~/my_c	<del></del>
Ψ <b>,</b> ο.υο.	· <u>_</u>
6. Display the content of	of "new_file.txt" using a pager tool of your choice.
less new_file.txt	
(I - P O I - P) F ( -	Parada a A
(kali⊛ kali)-[~/my_o \$\to\$ less new_file.txt	directory]
ψ 1000 110W_111016Α	
7. Append the text "Hel	lo, World!" to "new_file.txt".
echo "Hello, World!" >>	> new_file.txt
┌──(kali⊛ kali)-[~/my_ɗ	directory]
└─\$ echo "Hello, World dquote>	d!" >> new_file.txt
dquote> "Hello world	
Hello, World >> new_fil	e.txt
Hello world	
Tieno world	
Create a new directo	ry called "backup" within "my_directory".

mkdir backup
_—(kali⊛ kali)-[~/my_directory] —\$ mkdir backup
9. Move "new_file.txt" to the "backup" directory.
mv new_file.txt backup/
r—(kali⊛ kali)-[~/my_directory] \$ mv new_file.txt backup/
10. Verify that "new_file.txt" is now located in the "backup" directory.
Is backup
┌──(kali⊛ kali)-[~/my_directory] └─\$ Is backup new_file.txt
11. Delete the "backup" directory and all its contents.
rm -r backup
rm -r backup
┌──(kali⊛ kali)-[~/my_directory] └─\$ Is backup Is: cannot access 'backup': No such file or directory
┌──(kali⊛ kali)-[~/my_directory] └─\$ Is



#### **Task 2: Permissions and Scripting**

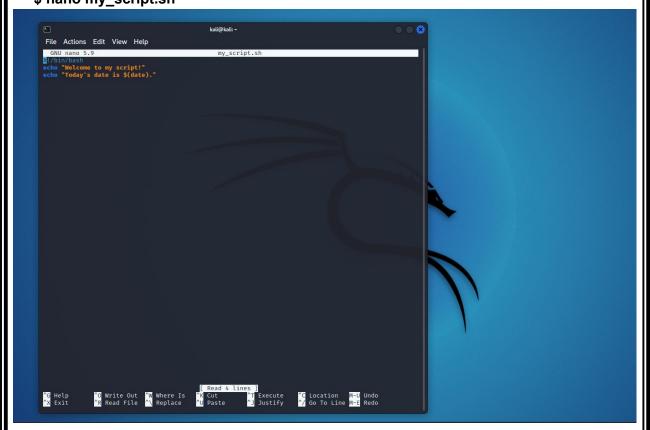
• Create a new file called "my script.sh".

—(kali⊛ kali)-[~/Desktop] —\$ touch my\_script.sh

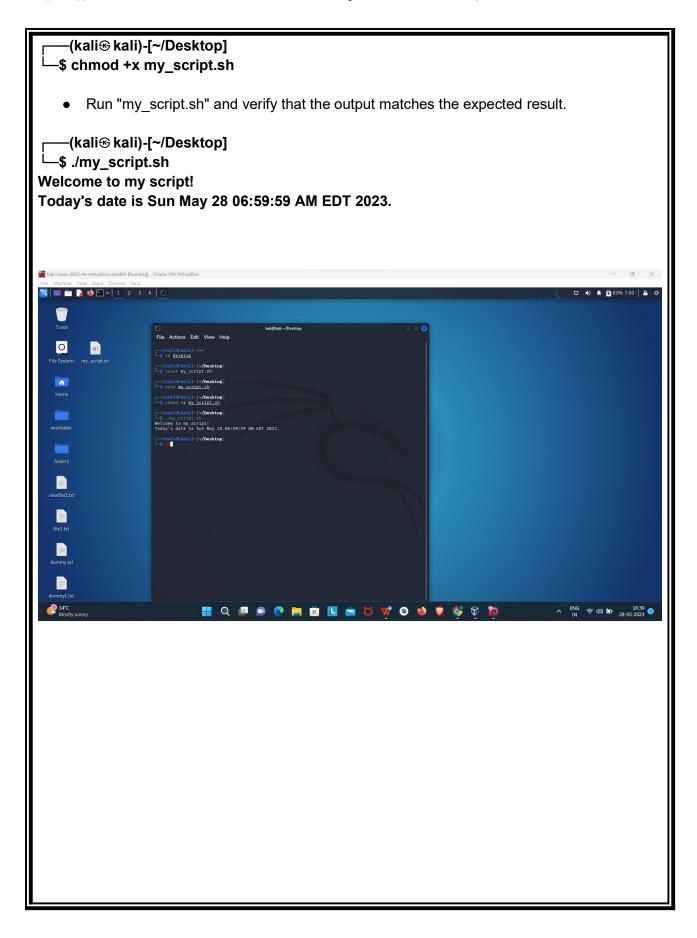
Edit "my\_script.sh" using a text editor of your choice and add the following lines:
 bash

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

—(kali⊛ kali)-[~/Desktop] -\$ nano my\_script.sh



Make "my\_script.sh" executable.



## **Task 3: Command Execution and Pipelines**

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

┌──(kali⊛ kali)-[~] └─\$ ps aux



• Use the "grep" command to filter the processes list and display only the processes with "bash" in their name.

```
(kali⊛ kali)-[~]

—$ ps aux | grep bash
```

kali 21398 0.0 0.1 6184 2228 pts/0 S+ 06:43 0:00 grep --color=auto bash

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

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