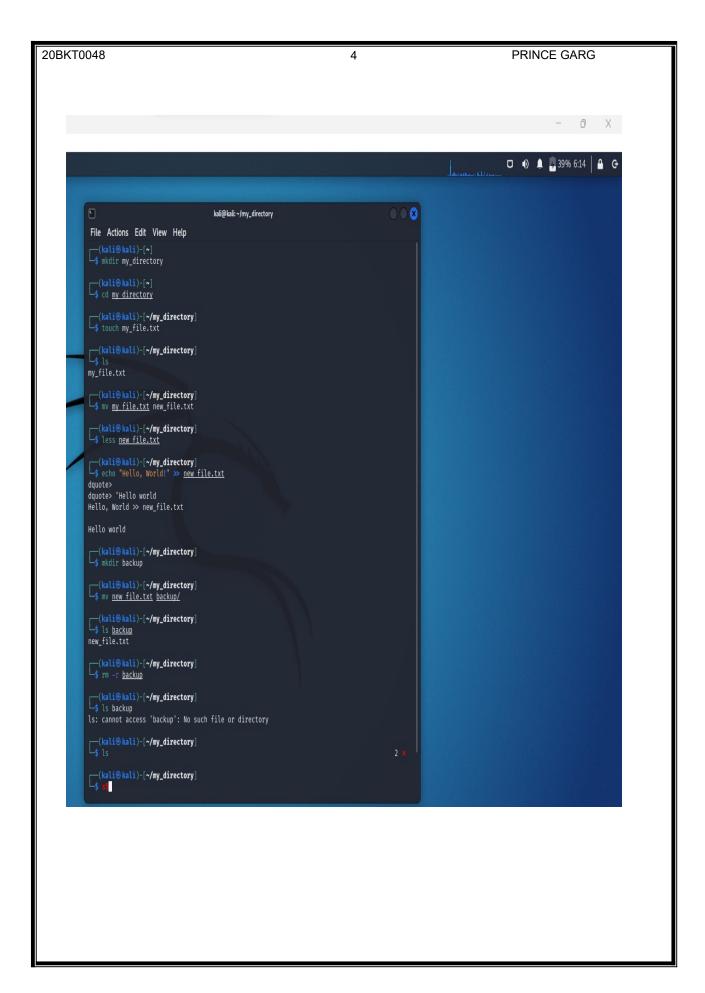
20BKT0048	1	PRINCE GARG
Assignment 2 : Bash Shell Basics		
Submitted By: NAME: PRINCE GARG REGISTER NUMBER: 20BKT0048		
INSTRUCTIONS:		
Provide a document or text file containing along with any relevant output or screensho necessary.		
COMMANDS AND SCREENSHOTS:		
Task 1: File and Directory Manipulation		
Create a directory called "my_director	ory".	
mkdir my_directory ┌──(kali⊛ kali)-[~] └─\$ mkdir my_directory		
Navigate into the "my_directory".		
cd my_directory ┌──(kali⊛ kali)-[~] └─\$ cd my_directory		
Create an empty file called "my_file.t	xt".	
touch my_file.txt —(kali⊛ kali)-[~/my_directory] └─\$ touch my_file.txt		2 🗆
List all the files and directories in the  Is	current dire	ectory.

```
-(kali% kali)-[~/my_directory]
└─$ Is
my_file.txt
5. Rename "my_file.txt" to "new_file.txt".
mv my_file.txt new_file.txt
   --(kali⊛ kali)-[~/my_directory]
__$ mv my_file.txt new_file.txt
6. Display the content of "new_file.txt" using a pager tool of your choice.
less new_file.txt
    -(kali

kali)-[~/my_directory]
$\int_$ less new_file.txt
7. Append the text "Hello, World!" to "new_file.txt".
echo "Hello, World!" >> new_file.txt
 ----(kali⊛ kali)-[~/my_directory]
dquote>
dquote> "Hello world
Hello, World >> new_file.txt
Hello world
```

8. Create a new directory 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/
(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
┌──(kali⊛ kali)-[~/my_directory] └─\$ 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

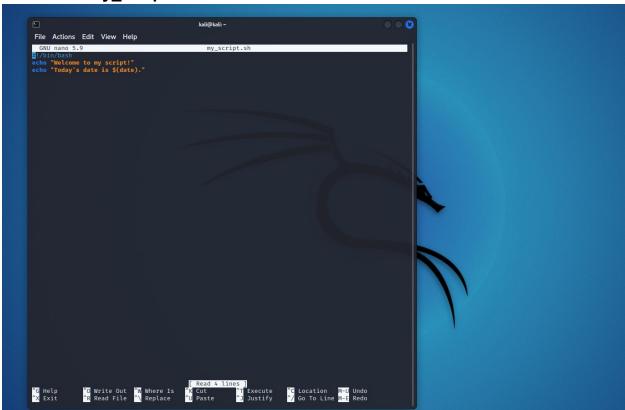
• Create a new file called "my\_script.sh".

┌──(kali⊛ kali)-[~] └─\$ 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)-[~] └─\$ nano my\_script.sh



Make "my\_script.sh" executable.

┌──(kali⊛ kali)-[~]

# └─\$ chmod +x my\_script.sh

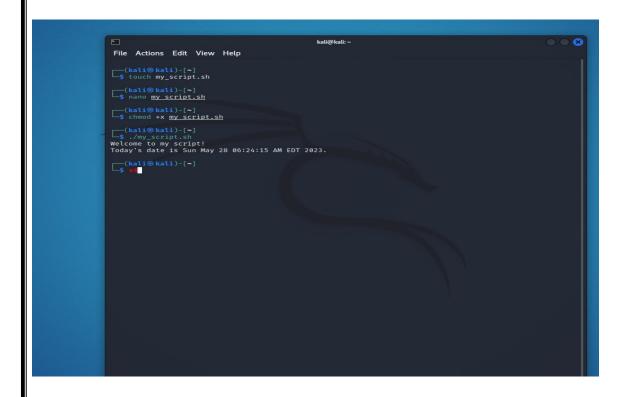
• Run "my\_script.sh" and verify that the output matches the expected result.

---(kali⊛ kali)-[~]

-\$ ./my\_script.sh

Welcome to my script!

Today's date is Sun May 28 06:24:15 AM EDT 2023.



## **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

```
<mark>(kali⊕kali</mark>)-[~]

$ 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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### ASSESSMENT1 FILE LINK

 $\underline{https://drive.google.com/file/d/1RI6mKVLmWyWyuw7YtcMTkPdoKqDNEH-j/view?usp=sharing}$ 

### ASSESSMENT2 FILE LINK

 $\underline{https://drive.google.com/file/d/1BDK14l9HdQwdZxHHmMugpM0lZqCUQcWV/view?usp=sharing}$ 

### FOLDER LINK

https://drive.google.com/drive/folders/1M65vhtpONkvHRYGQ0yljcfU\_wgKe1hDu?usp=sharing