

ASSESSMENT-2

Animikha Sinha | Cyber Security and Ethical Hacking

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.



animikha@LAPTOP-PUGUNFUJ: ~/my_directory

```
animikha@LAPTOP-PUGUNFUJ:~$ mkdir my_directory
animikha@LAPTOP-PUGUNFUJ:~$ cd my_directory
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ touch my_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ ls
my_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ mv my_file.txt new_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ more new_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ echo "Hemllo, World!" >> new_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ mkdir backup
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ mv new_file.txt backup
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ ls backup
new_file.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ rm -r backup
animikha@LAPTOP-PUGUNFUJ:~/my_directory$
```

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.

```
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ touch my_script.sh
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ vim my_script.sh
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ chmod u+x my_script.sh
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ bash my_script.sh
Welcome to my script!
Today's date is Sun May 28 18:38:45 IST 2023.
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ _
```



 animikha@LAPTOP-PUGUNFUJ: ~/my_directory

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

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.

```

animikha@LAPTOP-PUGUNFUJ:~/my_directory$ ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   1816  1184 ?        S1   13:43    0:00 /init
root       560  0.0  0.0   1816    96 ?        Ss   17:53    0:00 /init
root       561  0.0  0.0   1816    96 ?        R    17:53    0:00 /init
animikha   562  0.0  0.1  10168  5092 pts/0    Ss   17:53    0:00 -bash
animikha   609  0.0  0.0   8164   716 pts/0    T    18:44    0:00 grep --color=auto bash
animikha   615  0.0  0.0   7244   576 pts/0    T    18:48    0:00 wcanimikha  630  0.0  0.0  10616  3292 pts/0    R+   18:54    0:00 ps aux
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ ps aux | grep "bash"
animikha   562  0.0  0.1  10168  5092 pts/0    Ss   17:53    0:00 -bash
animikha   609  0.0  0.0   8164   716 pts/0    T    18:44    0:00 grep --color=auto bash
animikha   632  0.0  0.0   8164   656 pts/0    S+   18:54    0:00 grep --color=auto bash
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ ps aux | grep "bash" >> newfile2.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ wc newfile2.txt
  3  37 247 newfile2.txt
animikha@LAPTOP-PUGUNFUJ:~/my_directory$ _

```