Assignment: Bash Shell Basics Task 1

1:Creating a directory called "my_directory"

```
root@tryit-enough:~# mkdir my_directory
root@tryit-enough:~# ls
my_directory
root@tryit-enough:~#
```

2:Navigating into "my_directory"

```
root@tryit-enough:~# cd my_directory
root@tryit-enough:~/my_directory#
```

3: creating a empty file called "my_file.txt"4:list all files and directoriey in current directory

```
root@tryit-enough:~/my_directory# touch my_file.txt
root@tryit-enough:~/my_directory# ls
my_file.txt
root@tryit-enough:~/my_directory#
```

5:Renaming "my file.txt" using pager tool of your choise

```
root@tryit-enough:~/my_directory# mv my_file.txt new_file.txt
root@tryit-enough:~/my_directory# ls
new_file.txt
root@tryit-enough:~/my_directory#
```

6:displaying the content of the "new text file"

```
root@tryit-enough:~/my_directory# more new_file.txt
root@tryit-enough:~/my_directory# ls
new_file.txt
```

7:Append the text "hello world to new file"

```
root@tryit-enough:~/my_directory# echo 'hello world' >>new_file.txt
root@tryit-enough:~/my_directory#
```

8:Create a new directory called backup:

```
root@tryit-enough:~/my_directory# mkdir backup
root@tryit-enough:~/my_directory# l
bash: l: command not found
root@tryit-enough:~/my_directory# ls
backup new_file.txt
root@tryit-enough:~/my_directory#
```

9:Move new_file.txt to backup directory

```
root@tryit-enough:~/my_directory# mv new_file.txt backup
root@tryit-enough:~/my_directory#
```

10: verify that new file is now located I backup

```
root@tryit-enough:~/my_directory# mv new_file.txt backup
root@tryit-enough:~/my_directory# ls
backup
root@tryit-enough:~/my_directory#
```

11:delete the backup directory and all its contents:

```
root@tryit-enough:~/my_directory/backup# rm -rf backup
root@tryit-enough:~/my_directory/backup# ls
new_file.txt
root@tryit-enough:~/my_directory/backup#
```

Task 2: Permission and scripting: 1:Creating a new file called "my script.sh" 2:Editing my script sh using text editor of your choise

```
root@tryit-enough:~/my_directory/backup# touch my_script.sh
root@tryit-enough:~/my_directory/backup# vim my script.sh
```

Task 3: Command Execution and Pipelines

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

```
RSS TTY STAT STAR
2116 ? SS 12:08
9 7 S 12:08
USER
              PID MCPU MNEW
                                  VSZ
                                                                       TIME COMMAND
                1 0.0 0.3 167468 12116 ?
                                                                       0:02 /sbin/init splash
root
                                                       S 12:08 0:00 [kthreadd]
I< 12:08 0:00 [rcu_gp]
root
                                  0 0 ?
                3 0.0 0.0
root
                                                      I< 12:08 0:00 [rcu_par_gp]
root
                4 0.0 0.0
                5 0.0 0.0
                                                       I< 12:08 0:00 [netns]
                                         0 ?
root
                                                      I< 12:08 0:00 [kworker/0:0H-ovents_highpri]
I< 12:08 0:00 [kworker/0:1H-events_highpri]
I< 12:08 0:00 [mm_percpu_wq]
I 12:08 0:00 [rcu_tasks_kthread]
I 12:08 0:00 [rcu_tasks_rude_kthread]
                                        7 0.0 0.0
9 0.0 0.0
10 0.0 0.0
                                           0 ?
raot
root
raat
               11 0.9 0.9
                                  0
root
               12 0.0 0.0
root
               13 0.0 0.0
ract
               14 0.0 0.0
15 0.0 0.0
root
               16 0.0 0.0
root
               18 0.0 0.0
root
              19 0.0 0.0
ract
                                                      S 12:08 0:00 [migration/1]

S 12:08 0:00 [ksoftirqd/1]

I< 12:08 0:00 [kworker/1:0H-events_highpri]

S 12:08 0:00 [cpuhp/2]
                                  0 0 ?
0 0 ?
0 0 ?
               20 0.0 0.0
root
               21 0.0 0.0
23 0.0 0.0
root
                                         0 ?
root
                                  0
              24 0.0 0.0
root.
                                                            12:08 0:00 [migration/2]
                                         0.7
root
               25 0.0 0.0
               26 0.0 0.0
                                         0 ?
                                                             12:08 0:00 [ksoftirqd/2]
root
                                                                       0:00 [kworker/2:0H-events_highpri]
                28 0.0 0.0
                                           0.7
                                                       I< 12:08
root
                                                                       0:00 [cpuhp/3]
                29
                    0.0
                          0.0
                                           0 ?
                                                              12:08
root
                                                                       0:00 [migration/3]
root
                30 0.0
                          0.0
                                                              12:08
                                                                       0:00 [ksaftirqd/3]
                    0.0
                          0.0
                                           0 7
                                                              12:08
root
                    0.0
                          0.0
                                           0 ?
                                                              12:08
                                                                       0:00 [kworker/3:0H-events_highpri]
root
```

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

```
—$ ps aux | grep bash
:dit20b+ 35870 0.0 0.0 6228 2180 pts/0 S+ 14:18 0:00 grep --color=auto <del>hash</del>
```

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

└─\$ ps aux | grep bash | wc -l

• Submission:

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.