

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

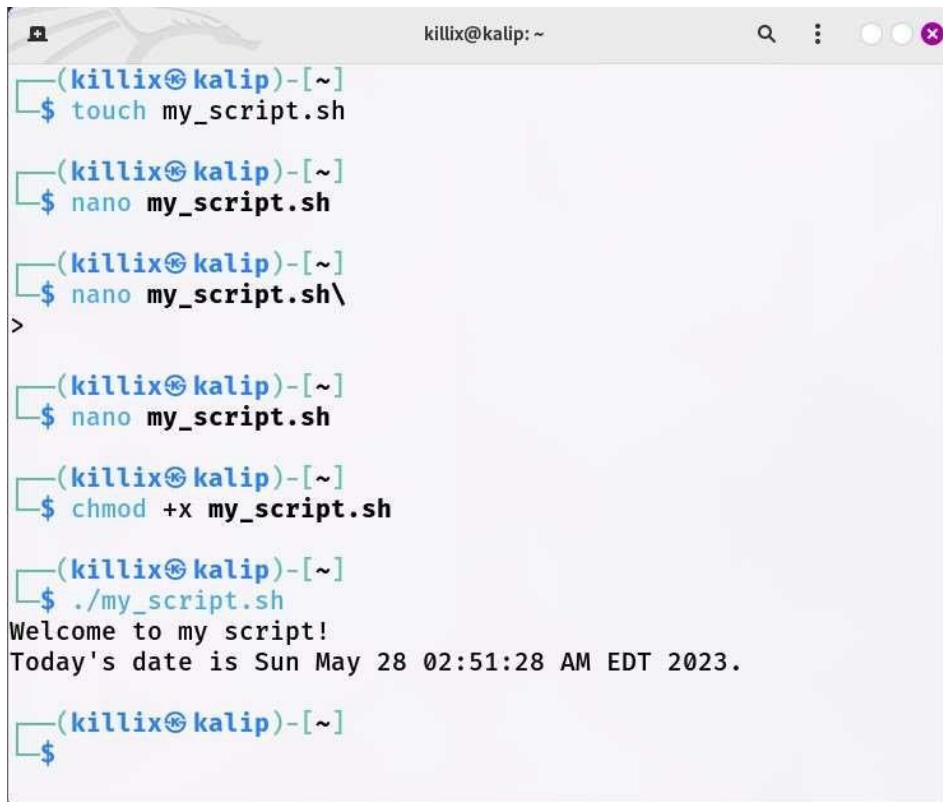
#!/bin/bash

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.



```
killix@kalip: ~  
(killix@kalip)-[~]  
$ touch my_script.sh  
(killix@kalip)-[~]  
$ nano my_script.sh  
(killix@kalip)-[~]  
$ nano my_script.sh\  
>  
(killix@kalip)-[~]  
$ nano my_script.sh  
(killix@kalip)-[~]  
$ chmod +x my_script.sh  
(killix@kalip)-[~]  
$ ./my_script.sh  
Welcome to my script!  
Today's date is Sun May 28 02:51:28 AM EDT 2023.  
(killix@kalip)-[~]  
$
```



```
GNU nano 7.2 my_script.sh  
#!/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.

```

(killix@kalip)-[~]
$ ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root             1  0.0  0.3 169200 13820 ?        Ss   01:36   0:01 /sbin/init splash
root             2  0.0  0.0      0     0 ?        S    01:36   0:00 [kthreadd]
root             3  0.0  0.0      0     0 ?        I<   01:36   0:00 [rcu_gp]
root             4  0.0  0.0      0     0 ?        I<   01:36   0:00 [rcu_par_gp]
root             5  0.0  0.0      0     0 ?        I<   01:36   0:00 [slub_flushwq]
root             6  0.0  0.0      0     0 ?        I<   01:36   0:00 [netns]
root            10  0.0  0.0      0     0 ?        I<   01:36   0:00 [mm_percpu_wq]
root            11  0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_kthread]
root            12  0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_rude_kthread]
root            13  0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_tasks_trace_kthread]
root            14  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/0]
root            15  0.0  0.0      0     0 ?        I    01:36   0:00 [rcu_preempt]
root            16  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/0]
root            18  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/0]
root            19  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/1]
root            20  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/1]
root            21  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/1]
root            23  0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/1:0H-events_highpri]
root            24  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/2]
root            25  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/2]
root            26  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/2]
root            28  0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/2:0H-events_highpri]
root            29  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/3]
root            30  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/3]
root            31  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/3]
root            33  0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/3:0H-events_highpri]
root            34  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/4]
root            35  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/4]
root            36  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/4]
root            38  0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/4:0H-events_highpri]
root            39  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/5]
root            40  0.0  0.0      0     0 ?        S    01:36   0:00 [migration/5]
root            41  0.0  0.0      0     0 ?        S    01:36   0:00 [ksoftirqd/5]
root            43  0.0  0.0      0     0 ?        I<   01:36   0:00 [kworker/5:0H-events_highpri]
root            44  0.0  0.0      0     0 ?        S    01:36   0:00 [cpuhp/6]

```

```

(killix@kalip)-[~]
$ ps aux | grep bash
killix      18348  0.0  0.0  6332  2144 pts/1    S+   03:00   0:00 grep --color=auto bash

(killix@kalip)-[~]
$ ps aux | grep bash | wc -l
1

```