

NATIONAL UNIVERSITY OF MODERN LANGUAGES ISLAMABAD



Operating System (Lab Task 12)

Submitted to

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- a. Find out who owns the file `/bin/ls` and who owns your home directory (in `/home`).
- b. Log on as root, and create an empty file with `touch`. The user and group owners should be 'root' — check with `ls`.
- c. Change the owner of the file to be 'users'.
- d. Change the group owner to be any non-root user.
- e. Change both of the owners back to being 'root' with a single command.

```
root@DESKTOP-677C6J0:~#  
root@DESKTOP-677C6J0:~# ls -l /bin/ls  
-rwxr-xr-x 1 root root 142312 Apr  5  2024 /bin/ls  
root@DESKTOP-677C6J0:~# whoami  
root  
root@DESKTOP-677C6J0:~# touch adeel.txt  
root@DESKTOP-677C6J0:~# ls  
PROJECT_DIR adeel.txt class_maintenance share sonnet-18.txt  
root@DESKTOP-677C6J0:~# chown root adeel.txxt  
chown: cannot access 'adeel.txxt': No such file or directory  
root@DESKTOP-677C6J0:~# chown root adeel.txt  
root@DESKTOP-677C6J0:~# ls -l adeel.txt  
-rw-r--r-- 1 root root 0 Dec 15 19:58 adeel.txt  
root@DESKTOP-677C6J0:~# chgrp root adeel.txt  
root@DESKTOP-677C6J0:~# ls -l adeel.txt  
-rw-r--r-- 1 root root 0 Dec 15 19:58 adeel.txt  
root@DESKTOP-677C6J0:~# chown root:root adeel.txt  
root@DESKTOP-677C6J0:~# ls -l adeel.txt  
-rw-r--r-- 1 root root 0 Dec 15 19:58 adeel.txt  
root@DESKTOP-677C6J0:~#
```