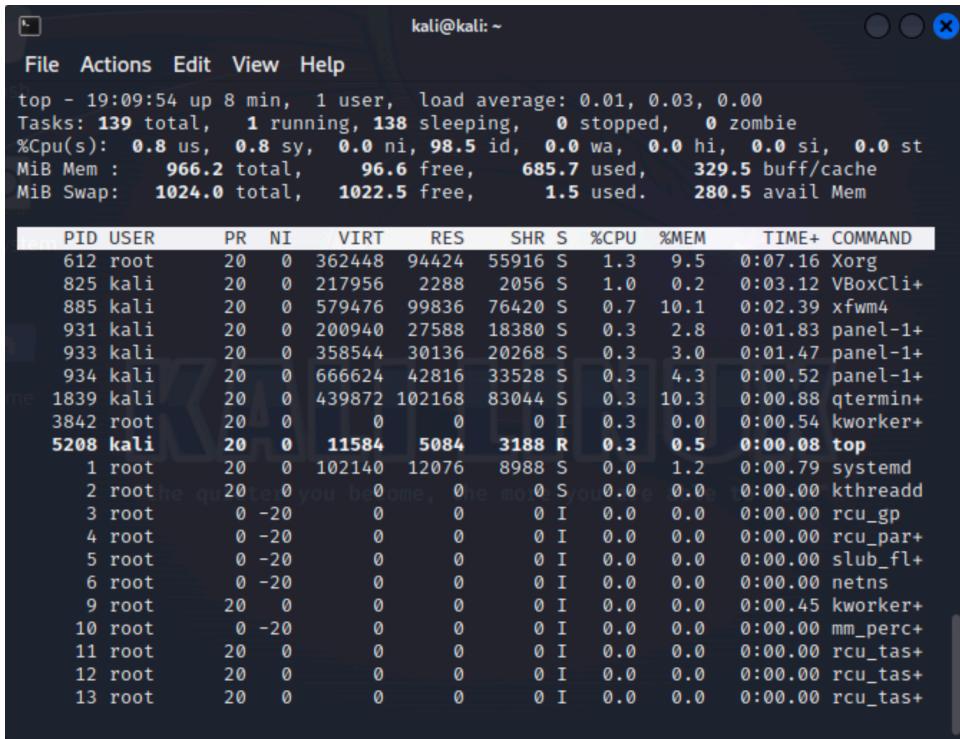


ESERCIZIO GIORNO 7

- Controllo processi attivi con comando `<top>`



```
top - 19:09:54 up 8 min, 1 user, load average: 0.01, 0.03, 0.00
Tasks: 139 total, 1 running, 138 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.8 us, 0.8 sy, 0.0 ni, 98.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 966.2 total, 96.6 free, 685.7 used, 329.5 buff/cache
MiB Swap: 1024.0 total, 1022.5 free, 1.5 used, 280.5 avail Mem

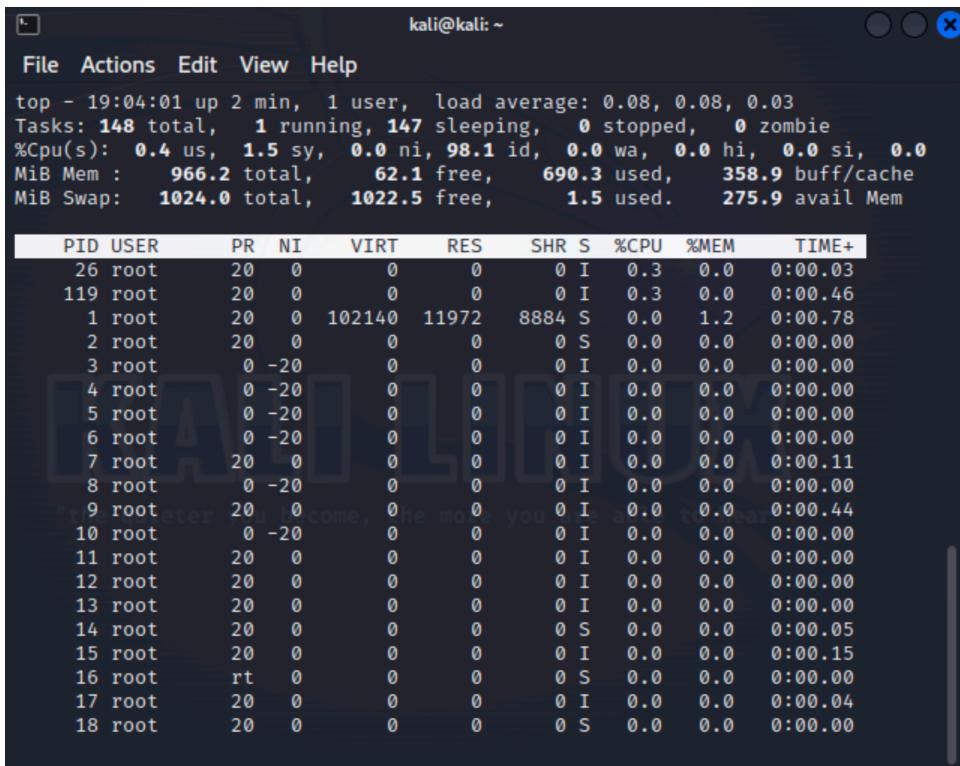
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
612 root 20 0 362448 94424 55916 S 1.3 9.5 0:07.16 Xorg
825 kali 20 0 217956 2288 2056 S 1.0 0.2 0:03.12 VBoxCli+
885 kali 20 0 579476 99836 76420 S 0.7 10.1 0:02.39 xfwm4
931 kali 20 0 200940 27588 18380 S 0.3 2.8 0:01.83 panel-1+
933 kali 20 0 358544 30136 20268 S 0.3 3.0 0:01.47 panel-1+
934 kali 20 0 666624 42816 33528 S 0.3 4.3 0:00.52 panel-1+
1839 kali 20 0 439872 102168 83044 S 0.3 10.3 0:00.88 qtermin+
3842 root 20 0 0 0 0 I 0.3 0.0 0:00.54 kworker+
5208 kali 20 0 11584 5084 3188 R 0.3 0.5 0:00.08 top
1 root 20 0 102140 12076 8988 S 0.0 1.2 0:00.79 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par+
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slub_fl+
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
9 root 20 0 0 0 0 I 0.0 0.0 0:00.45 kworker+
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_perc+
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+
12 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+
```

PID: Id del processo attivo

USER: L'utente che ha lanciato il processo

COMMAND: il comando utilizzato per creare il processo

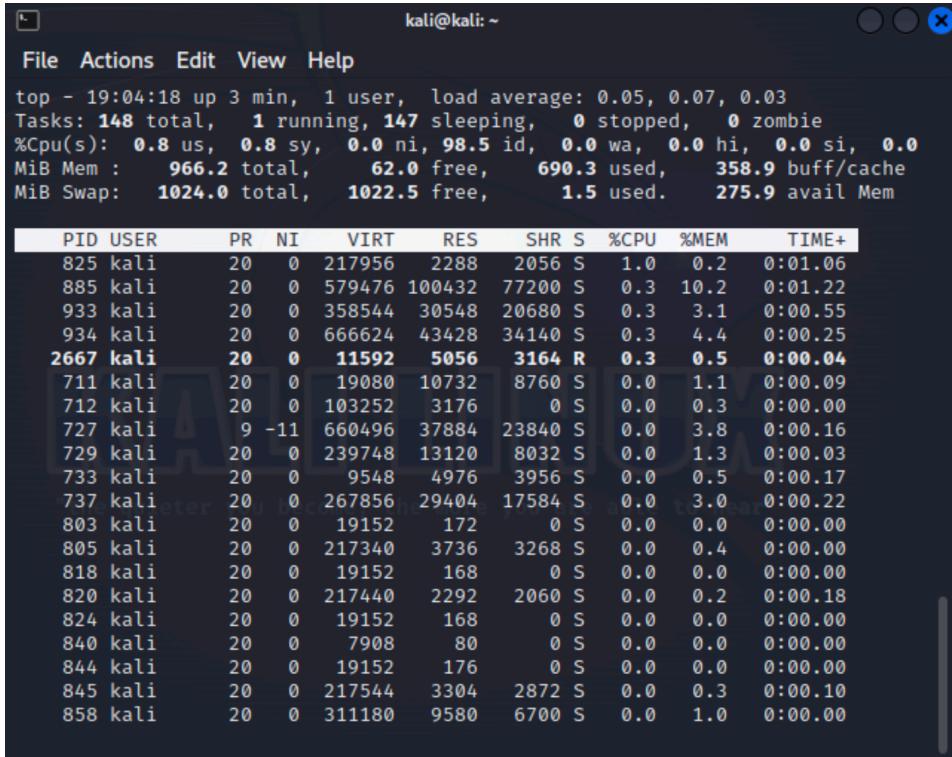
Processi attivi con filtro <Root>



```
top - 19:04:01 up 2 min, 1 user, load average: 0.08, 0.08, 0.03
Tasks: 148 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.4 us, 1.5 sy, 0.0 ni, 98.1 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0
MiB Mem : 966.2 total, 62.1 free, 690.3 used, 358.9 buff/cache
MiB Swap: 1024.0 total, 1022.5 free, 1.5 used, 275.9 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+
26 root 20 0 0 0 0 I 0.3 0.0 0:00.03
119 root 20 0 0 0 0 I 0.3 0.0 0:00.46
1 root 20 0 102140 11972 8884 S 0.0 1.2 0:00.78
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
7 root 20 0 0 0 0 I 0.0 0.0 0:00.11
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
9 root 20 0 0 0 0 I 0.0 0.0 0:00.44
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00
12 root 20 0 0 0 0 I 0.0 0.0 0:00.00
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00
14 root 20 0 0 0 0 S 0.0 0.0 0:00.05
15 root 20 0 0 0 0 I 0.0 0.0 0:00.15
16 root rt 0 0 0 0 S 0.0 0.0 0:00.00
17 root 20 0 0 0 0 I 0.0 0.0 0:00.04
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00
```

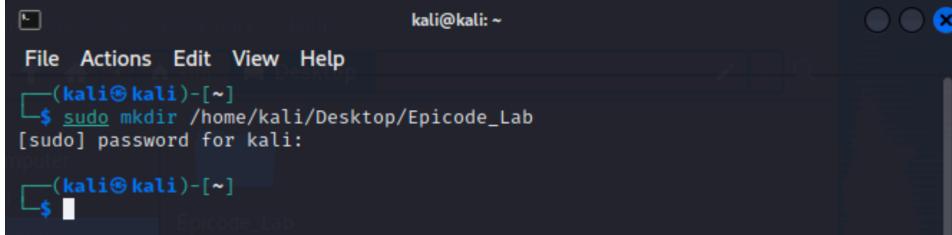
Processi attivi con filtro <kali>



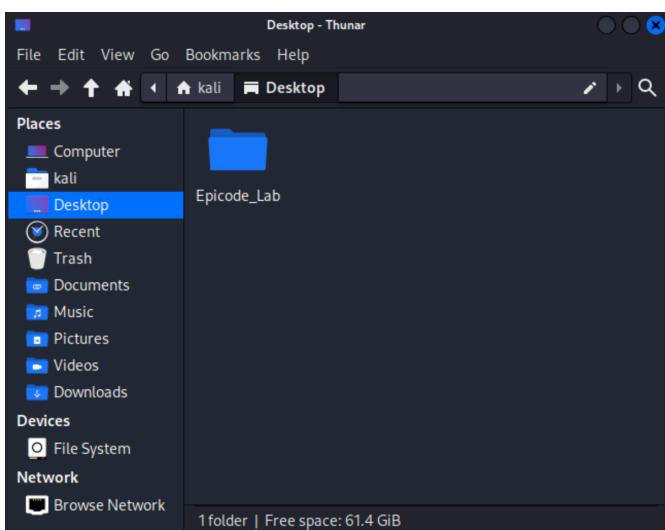
```
top - 19:04:18 up 3 min, 1 user, load average: 0.05, 0.07, 0.03
Tasks: 148 total, 1 running, 147 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.8 us, 0.8 sy, 0.0 ni, 98.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0
MiB Mem : 966.2 total, 62.0 free, 690.3 used, 358.9 buff/cache
MiB Swap: 1024.0 total, 1022.5 free, 1.5 used. 275.9 avail Mem

PID USER      PR  NI    VIRT   RES   SHR   %CPU   %MEM    TIME+
825 kali      20   0 217956  2288  2056 S    1.0    0.2  0:01.06
885 kali      20   0 579476 100432  77200 S   0.3   10.2  0:01.22
933 kali      20   0 358544  30548  20680 S   0.3    3.1  0:00.55
934 kali      20   0 666624  43428  34140 S   0.3    4.4  0:00.25
2667 kali     20   0 11592  5056  3164 R   0.3    0.5  0:00.04
711 kali      20   0 19080  10732  8760 S   0.0    1.1  0:00.09
712 kali      20   0 103252  3176   0 S   0.0    0.3  0:00.00
727 kali      9  -11 660496  37884  23840 S   0.0    3.8  0:00.16
729 kali      20   0 239748 13120   8032 S   0.0    1.3  0:00.03
733 kali      20   0  9548   4976  3956 S   0.0    0.5  0:00.17
737 kali      20   0 267856 29404  17584 S   0.0    3.0  0:00.22
803 kali      20   0 19152   172   0 S   0.0    0.0  0:00.00
805 kali      20   0 217340  3736  3268 S   0.0    0.4  0:00.00
818 kali      20   0 19152   168   0 S   0.0    0.0  0:00.00
820 kali      20   0 217440  2292  2060 S   0.0    0.2  0:00.18
824 kali      20   0 19152   168   0 S   0.0    0.0  0:00.00
840 kali      20   0  7908   80   0 S   0.0    0.0  0:00.00
844 kali      20   0 19152   176   0 S   0.0    0.0  0:00.00
845 kali      20   0 217544  3304  2872 S   0.0    0.3  0:00.10
858 kali      20   0 311180  9580  6700 S   0.0    1.0  0:00.00
```

Creare una nuova directory chiamata <Epicode_Lab>



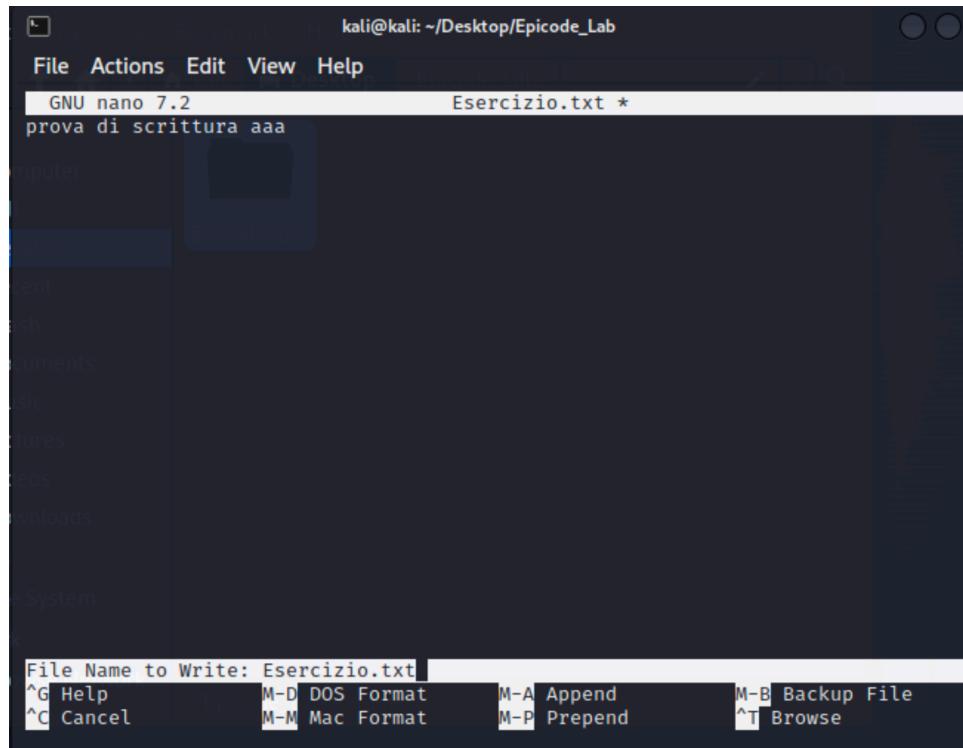
```
(kali㉿kali)-[~]
$ sudo mkdir /home/kali/Desktop/Epicode_Lab
[sudo] password for kali:
$
```



Spostarsi nella directory e creare il file <Esercizio.txt>

```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo nano Esercizio.txt
```

Modificare il file con editor di testo nano



Utilizzo del comando <cat> per leggere il file .txt

```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ cat Esercizio.txt
prova di scrittura aaa
```

Controllare i permessi del file con il comando ls -la

```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rw-r--r-- 1 root root 23 May  9 19:33 Esercizio.txt
```

Modifica privilegi del file con:

U: rwx G: rw O: r

```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo chmod u+x Esercizio.txt
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo chmod g+w Esercizio.txt
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrwxr-- 1 root root 23 May  9 19:33 Esercizio.txt
```

Creare nuovo utente usando <useradd> ed assegnare password con <passwd>

```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo useradd epicode

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo passwd epicode
New password:
Retype new password:
passwd: password updated successfully
```

Cambiare privilegi di <altri utenti>

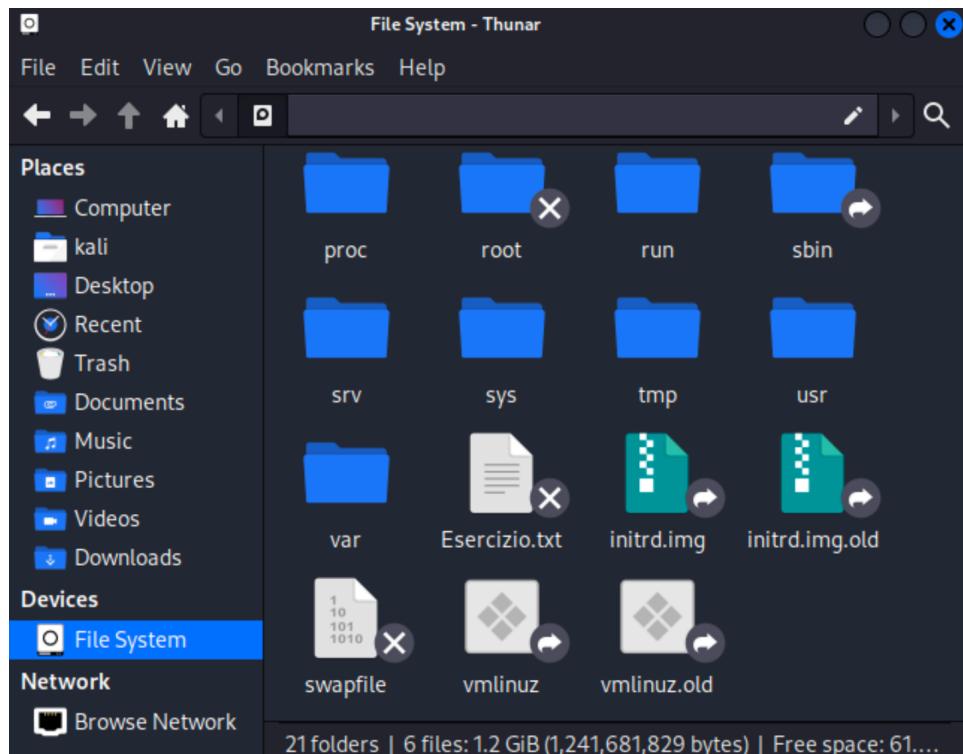
```
(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 root root 23 May  9 19:33 Esercizio.txt

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ sudo chmod o-r Esercizio.txt

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 root root 23 May  9 19:33 Esercizio.txt
```

Spostare il file nella directory /

```
(kali㉿kali)-[~]
$ sudo mv /home/kali/Desktop/Epicode_Lab/Esercizio.txt /
[sudo] password for kali:
```



Cambiare utente con il comando <su>

```
(kali㉿kali)-[~]
$ su episode
Password:
$
```

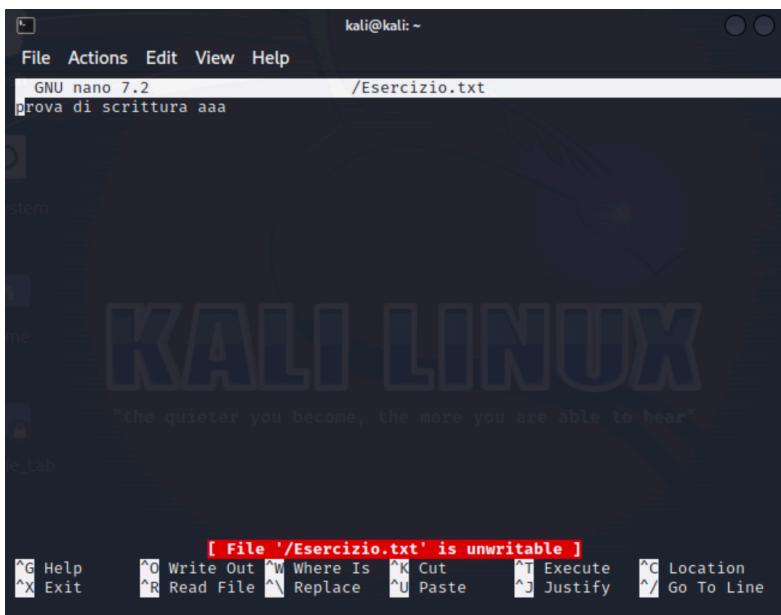
Provare ad aprire in lettura il file .txt con il comando <nano> e vedere errore

```
[ Error reading /Esercizio.txt: Permission denied ]
^G Help      ^O Write Out  ^W Where Is  ^K Cut        ^T Execute  ^C Location
^X Exit      ^R Read File  ^\ Replace   ^U Paste      ^J Justify  ^/ Go To Line
```

Modificare i permessi e riaprire file

```
(kali㉿kali)-[~]
$ ls -la /Esercizio.txt
-rwxrw--- 1 root root 23 May  9 19:33 /Esercizio.txt

(kali㉿kali)-[~]
$ sudo chmod o+r /Esercizio.txt
[sudo] password for kali:
me
(kali㉿kali)-[~]
$ ls -la /Esercizio.txt
-rwxrwsr-- 1 root root 23 May  9 19:33 /Esercizio.txt
```



```
File Actions Edit View Help
GNU nano 7.2          /Esercizio.txt
prova di scrittura aaa

[ File '/Esercizio.txt' is unwritable ]
^G Help      ^O Write Out  ^W Where Is  ^K Cut        ^T Execute  ^C Location
^X Exit      ^R Read File  ^\ Replace   ^U Paste      ^J Justify  ^/ Go To Line
```

Rimuovere il file la cartella e l'utente creati

```
(kali㉿kali)-[~]
$ sudo rm /Esercizio.txt
[sudo] password for kali:
[rm] -i
(kali㉿kali)-[~]
$ sudo rmdir /home/kali/Desktop/Epicode_Lab
[rm] -i
(kali㉿kali)-[~]
$ sudo userdel episode
```