```
stan@stan-VirtualBox:~$ dir

Desktop Downloads Music Public Templates

Documents Folder Pictures snap Videos
```

#### dir

First command is to check the directories in stan(user).

```
stan@stan-VirtualBox:~$ cd Desktop/
```

## cd Desktop/

Second command is to change the directory to Desktop/

```
stan@stan-VirtualBox:~/Desktop$ mkdir lab4
```

#### mkdir lab4

With this command we are creating a directory named lab4/

```
stan@stan-VirtualBox:~/Desktop$ cd lab4/
```

#### cd lab4/

As I said this is for changing the directories from Desktop/ to lab4/

```
stan@stan-VirtualBox:~/Desktop/lab4$ touch friends.txt
```

#### 1. touch friend.txt

Here in the current directory we are creating a file, named "friend" with extension .txt

```
stan@stan-VirtualBox:~/Desktop/lab4$ nano friends.txt
```

#### nano friends.txt

Here with this command we are editing the content of the friends.txt file. To safe the changes we simply hit ctrl + x + y + enter.

```
GNU nano 6.2

Andy
Eli
Kiro

Read 3 lines ]

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Where Is

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CLocation

Read File

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Number Priends.txt

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Friends.txt

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Number Priend
```

```
stan@stan-VirtualBox:~/Desktop/lab4$ cat friends.txt
Andy
Eli
Kiro
```

#### 2. cat friends.txt

This command is displaying the content of the txt file.

```
stan@stan-VirtualBox:~/Desktop/lab4$ mv friends.txt bestfriends.txt
stan@stan-VirtualBox:~/Desktop/lab4$ ls
bestfriends.txt
```

#### 3. my friends.txt bestfriends.txt

This my command is changing the name of the "friends.txt" file to "bestfriends.txt" file.

```
stan@stan-VirtualBox:~/Desktop/lab4$ cp bestfriends.txt fileCpy.txt
stan@stan-VirtualBox:~/Desktop/lab4$ ls
bestfriends.txt fileCpy.txt
```

# 4. cp bestfriends.txt fileCpy.txt

This command is going to copy "bestfriends.txt" in "fileCpy.txt" in the current directory lab4.

```
stan@stan-VirtualBox:~/Desktop/lab4$ ls -d b*
bestfriends.txt
```

#### 5. ls -d b\*

This is listing all elements, starting with the letter "b" in the directory.

```
stan@stan-VirtualBox:~/Desktop/lab4$ wc --bytes fileCpy.txt
14 fileCpy.txt
```

# 6. wc --bytes fileCpy.txt

This command is telling us how many bytes are taken by the file. In this case the taken bytes are 14.

```
stan@stan-VirtualBox:~/Desktop/lab4$ touch cars.txt
```

#### 7. touch cars.txt

This command, as I mentioned is creating a file. In this example we created "cars.txt"

```
stan@stan-VirtualBox:~/Desktop/lab4$ nano cars.txt
stan@stan-VirtualBox:~/Desktop/lab4$ cat cars.txt
Opel <3
Tesla
Fiat
Honda
Smart</pre>
```

# nano cars.txt cat cars.txt

As I mentioned earlier nano is for file editing and cat is for displaying the content of a file quickly. Here we can see 5 Brands(the first is my favorite:)).

```
stan@stan-VirtualBox:~/Desktop/lab4$ wc --bytes cars.txt
31 cars.txt
```

## 8. wc --bytes cars.txt

As I mentioned this command will display how many bytes are taken by the file. In this example the taken bytes are 31.

```
stan@stan-VirtualBox:~/Desktop/lab4$ cp cars.txt ./tmp/cars.txt 9.cp
```

# cars.txt ./tmp/cars.txt

This command as I mentioned is going to copy "cars.txt" in directory tmp/ with the name "cars.txt".

```
stan@stan-VirtualBox:~/Desktop/lab4/tmp$ ls -d *txt
cars.txt
```

#### 10. ls -d \*.txt

This command will search in the current directory for a file with extension ".txt".

```
stan@stan-VirtualBox:~$ mv ./Desktop/lab4/tmp/cars.txt ./Desktop/lab4/tmp/vehicles.txt
stan@stan-VirtualBox:~$ ls -lh ./Desktop/lab4/tmp
total 4,0K
-rw-rw-r-- 1 stan stan 31 map 1 23:05 vehicles.txt
```

# 11. mv ./Desktop/lab4/tmp/cars.txt ./Desktop/lab4/tmp/vehicles.txt

This is changing the name of "cars.txt" to "vahicles.txt".

```
GNU nano 6.2
                                                                                                                               Dā
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:115::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,;:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,;:/run/speech-dispatcher:/bin/false
fwupd-refresh:x:120:126:fwupd-refresh user,,;:/run/systemd:/usr/sbin/nologin
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
stan:x:1000:1000:Stan,,,:/home/stan:/bin/bash
```

# 12. cd .. cd etc nano passwd

With this we are navigating to root, from there to directory etc/ and from there to passwd file, and to see the content we are editing the file with nano.