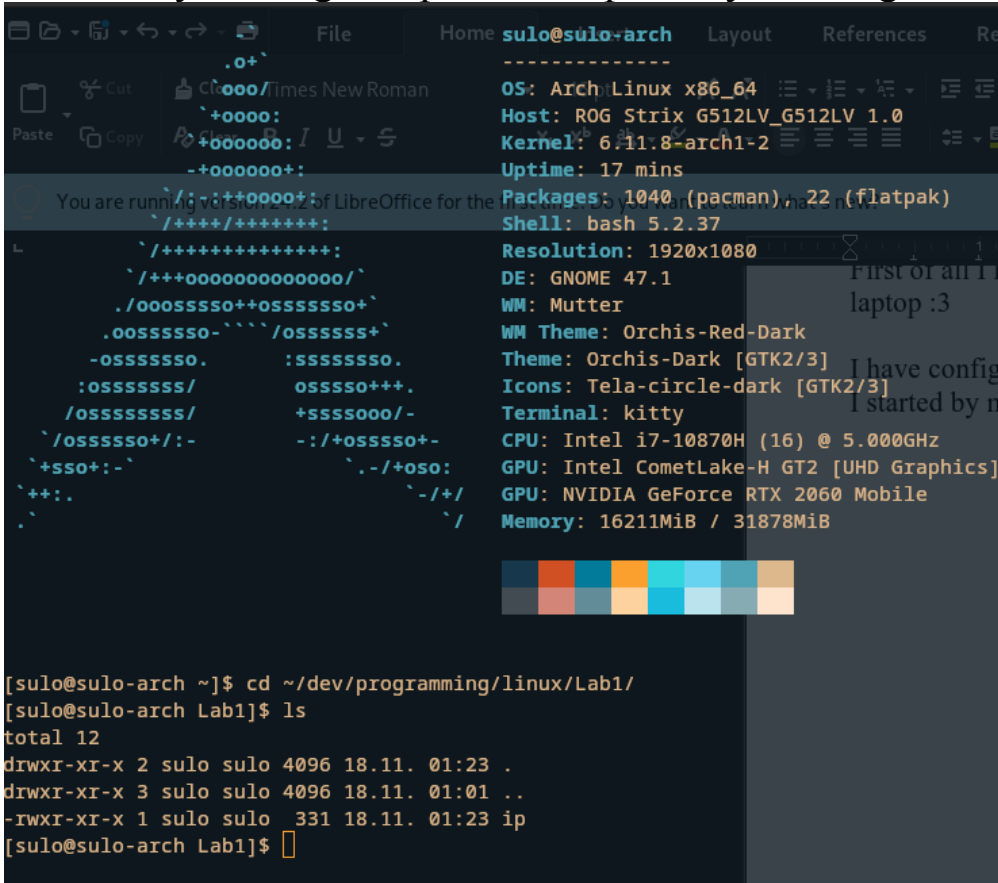


Lab1

First of all I have Arch Linux (gnome edition) already installed to my laptop :3

I have configured Kitty terminal.

I started by making the ip shell script to my working directory



The screenshot shows a terminal window with a dark background and light-colored text. At the top, there's a window title bar with 'File', 'Home', 'sulo@sulo-arch', 'Layout', 'References', and 'Rev'. Below the title bar, there's a system information block with the following details: OS: Arch Linux x86_64, Host: ROG Strix G512LV_G512LV 1.0, Kernel: 6.11.8-arch1-2, Uptime: 17 mins, Packages: 1040 (pacman), 22 (flatpak), Shell: bash 5.2.37, Resolution: 1920x1080, DE: GNOME 47.1, WM: Mutter, WM Theme: Orchis-Red-Dark, Theme: Orchis-Dark [GTK2/3], Icons: Tela-circle-dark [GTK2/3], Terminal: kitty, CPU: Intel i7-10870H (16) @ 5.000GHz, GPU: Intel CometLake-H GT2 [UHD Graphics], GPU: NVIDIA GeForce RTX 2060 Mobile, Memory: 16211MiB / 31878MiB. Below this, there's a color calibration bar with several colored squares. At the bottom, there's a directory listing for the path ~/dev/programming/linux/Lab1/.

```
[sulo@sulo-arch ~]$ cd ~/dev/programming/linux/Lab1/
[sulo@sulo-arch Lab1]$ ls
total 12
drwxr-xr-x 2 sul0 sul0 4096 18.11. 01:23 .
drwxr-xr-x 3 sul0 sul0 4096 18.11. 01:01 ..
-rwxr-xr-x 1 sul0 sul0 331 18.11. 01:23 ip
[sulo@sulo-arch Lab1]$
```

The script:

```
#!/bin/bash
# Check if the option -v is provided
if [[ "$1" == "-v" ]]; then
    #grab ip, subnet and broadcast addresses
    ip addr show | grep -E 'inet|broadcast' | awk '{print "IP Address: " $2 "
Subnet Mask: " $4 " Broadcast Address: " $6}'
else
    #grab only the ip addresses
    ip addr show | grep -oP 'inet \K[\d.]+'
fi
```

Then I copied the script to /usr/bin and made it executable with `chmod +x ip`. I ran the command from my terminal by writing the command name. Ip I couldn't get to work even if I removed the default system ip command (no shit xD) so I named the .sh script to ipcheck and then it worked without problems.

```
[sulo@sulo-arch Lab1]$ ipcheck
127.0.0.1
192.168.1.12
192.168.1.143
192.168.1.144
[sulo@sulo-arch Lab1]$ ipcheck -v
IP Address: 127.0.0.1/8 Subnet Mask: host Broadcast Address:
IP Address: ::1/128 Subnet Mask: host Broadcast Address:
IP Address: 192.168.1.12/24 Subnet Mask: 192.168.1.255 Broadcast Address: global
IP Address: fe80::3d0c:d2ed:23d9:4766/64 Subnet Mask: link Broadcast Address:
IP Address: 192.168.1.143/24 Subnet Mask: 1024 Broadcast Address: 192.168.1.255
IP Address: 192.168.1.144/24 Subnet Mask: 192.168.1.255 Broadcast Address: global
IP Address: fdd5:fcd7:f83c::2d3/128 Subnet Mask: global Broadcast Address: noprefixroute
IP Address: fdd5:fcd7:f83c:0:199f:183f:619f:ec18/64 Subnet Mask: global Broadcast Address: -v is provided
IP Address: fdd5:fcd7:f83c:0:cae2:65ff:fe74:6779/64 Subnet Mask: global Broadcast Address: noprefixroute
IP Address: fe80::3150:1c2b:3a6f:5ada/64 Subnet Mask: link Broadcast Address:
[sulo@sulo-arch Lab1]$
```

Hope this was the right way of doing this.