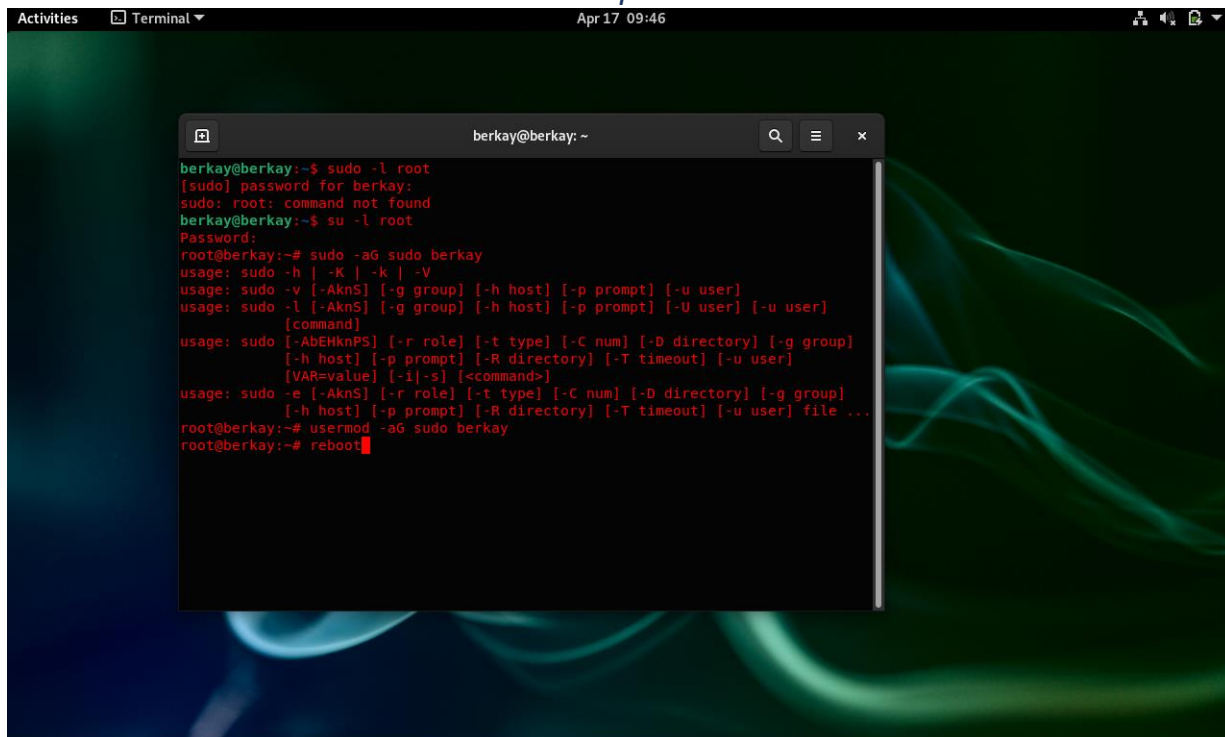


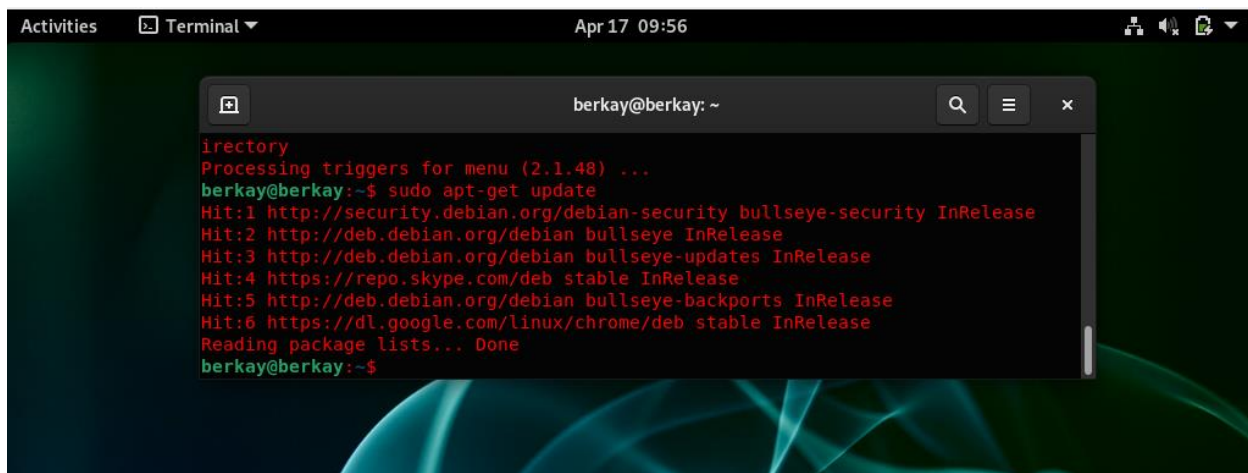
## Prerequisites:



A terminal window titled 'berkay@berkay: ~' showing the following commands and their outputs:

```
berkay@berkay:~$ sudo -l root
[sudo] password for berkay:
sudo: root: command not found
berkay@berkay:~$ su -l root
Password:
root@berkay:~# sudo -aG sudo berkay
usage: sudo -h | -K | -k | -V
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user]
[command]
usage: sudo [-AbEHknPS] [-r role] [-t type] [-C num] [-D directory] [-g group]
[-h host] [-p prompt] [-R directory] [-T timeout] [-u user]
[VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-D directory] [-g group]
[-h host] [-p prompt] [-R directory] [-T timeout] [-u user] file ...
root@berkay:~# usermod -aG sudo berkay
root@berkay:~# reboot
```

## System repository Update:

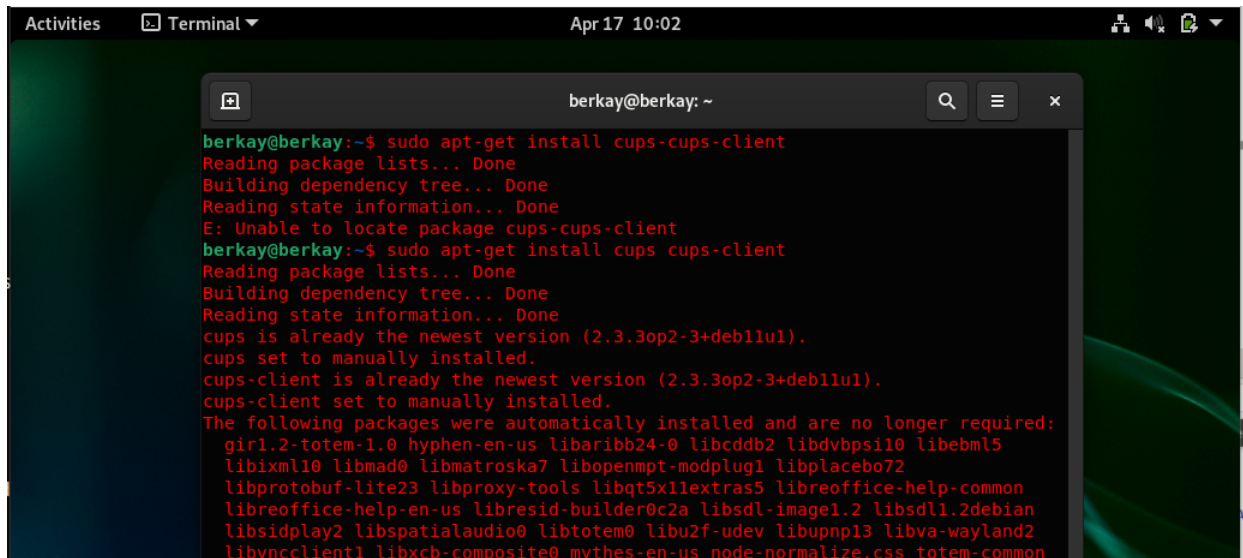


A terminal window titled 'berkay@berkay: ~' showing the following commands and their outputs:

```
berkay@berkay:~$ sudo apt-get update
Processing triggers for menu (2.1.48) ...
berkay@berkay:~$ sudo apt-get update
Hit:1 http://security.debian.org/debian-security bullseye-security InRelease
Hit:2 http://deb.debian.org/debian bullseye InRelease
Hit:3 http://deb.debian.org/debian bullseye-updates InRelease
Hit:4 https://repo.skype.com/deb stable InRelease
Hit:5 http://deb.debian.org/debian bullseye-backports InRelease
Hit:6 https://dl.google.com/linux/chrome/deb stable InRelease
Reading package lists... Done
berkay@berkay:~$
```

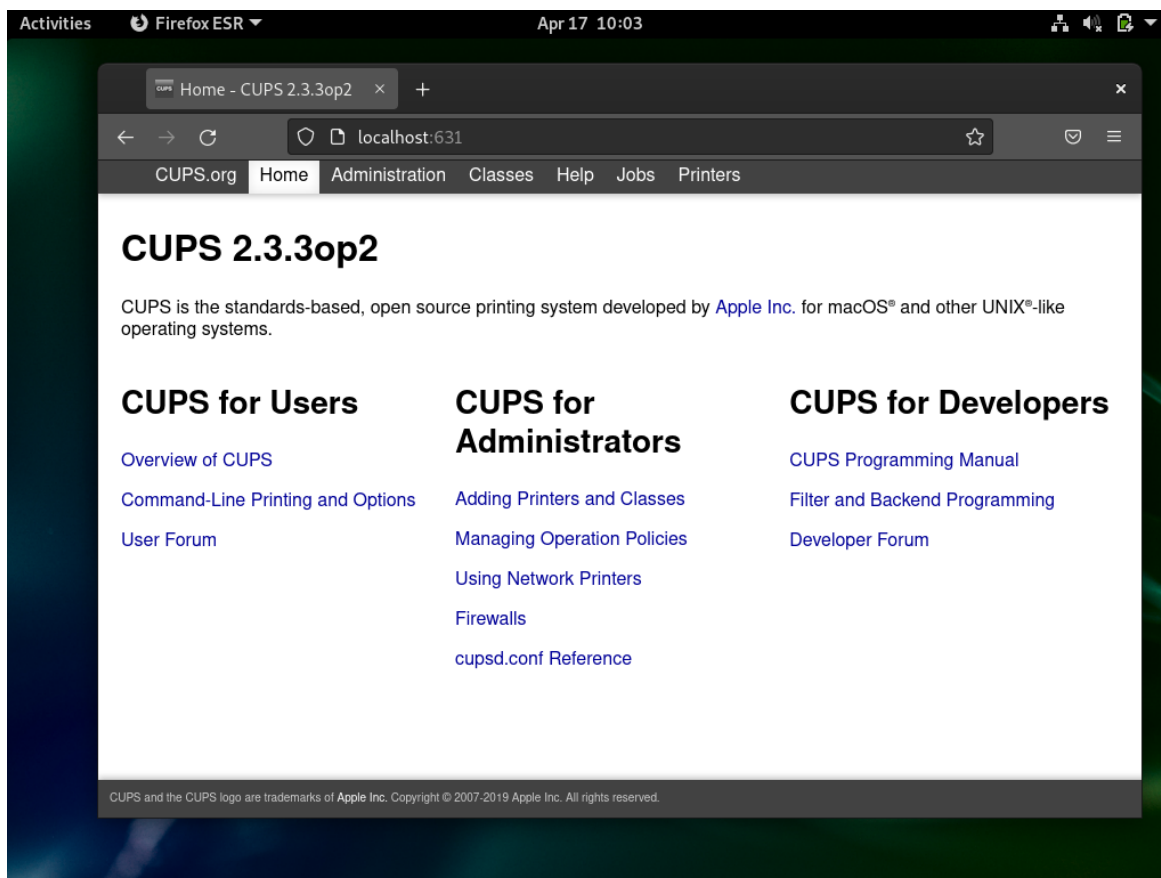
## TASK1: CUPS installation

### *Install Software:*



```
berkay@berkay: ~  
berkay@berkay:~$ sudo apt-get install cups-cups-client  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
E: Unable to locate package cups-cups-client  
berkay@berkay:~$ sudo apt-get install cups cups-client  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
cups is already the newest version (2.3.3op2-3+deb11u1).  
cups set to manually installed.  
cups-client is already the newest version (2.3.3op2-3+deb11u1).  
cups-client set to manually installed.  
The following packages were automatically installed and are no longer required:  
gir1.2-totem-1.0 hyphen-en-us libaribb24-0 libcddeb2 libdvbpsi10 libebml5  
libxml10 libmad0 libmatroska7 libopenmpt-modplug1 libplacebo72  
libprotobuf-lite23 libproxy-tools libqt5x11extras5 libreoffice-help-common  
libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian  
libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2  
libvncclient1 libxcb-composite0 mythes-en-us node-normalize.css totem-common
```

### *CUPS Web Frontend using web browser, interface:*



## CUPS Pdf printer installation:

```
Activities Terminal Apr 17 10:09

berkay@berkay: ~

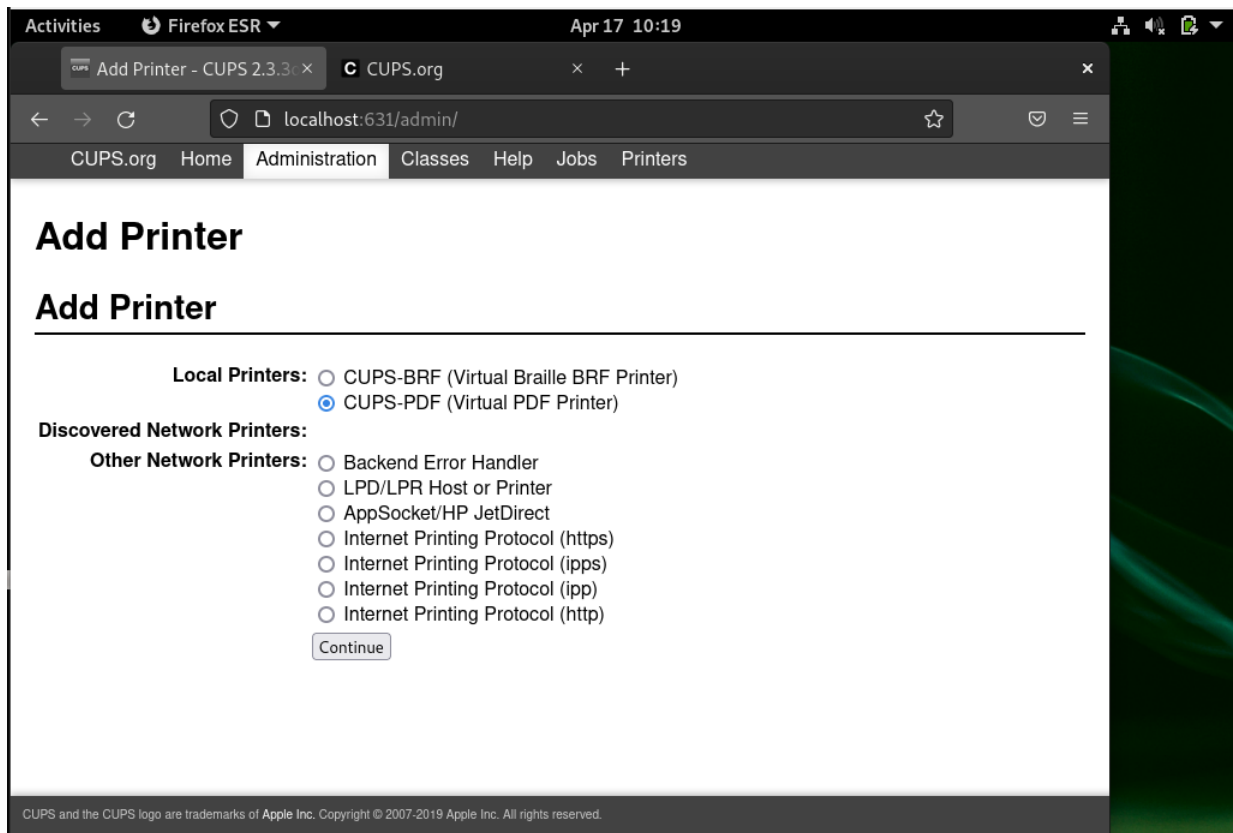
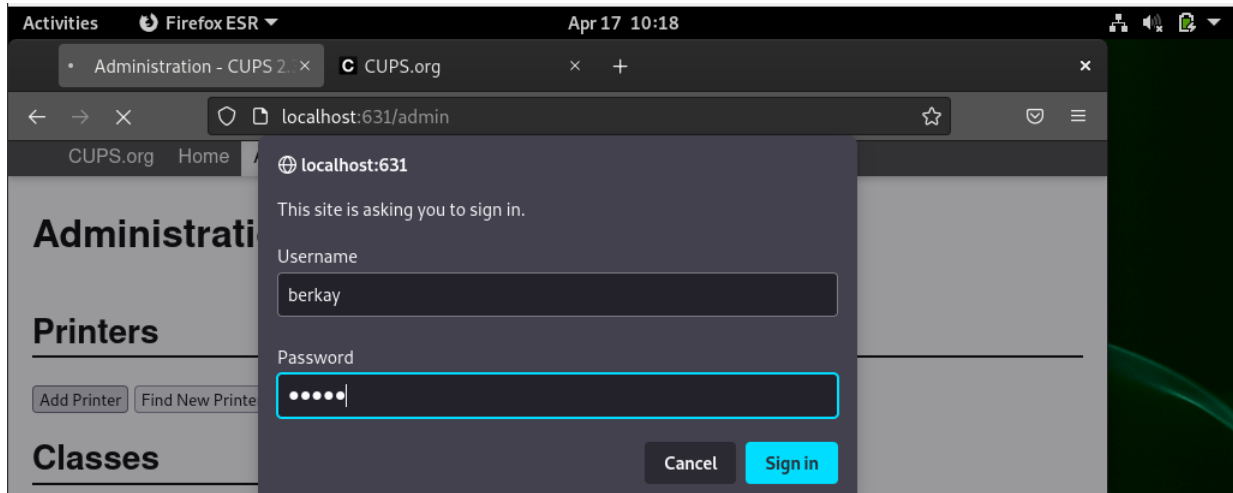
berkay@berkay:~$ sudo apt-get install cups-pdf
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'printer-driver-cups-pdf' instead of 'cups-pdf'
The following packages were automatically installed and are no longer required:
  gir1.2-totem-1.0 hyphen-en-us libaribb24-0 libcdcb2 libdvbpsi10 libebml5
  libxml10 libmad0 libmatroska7 libopenmpt-modplug1 libplacebo72
  libprotobuf-lite23 libproxy-tools libqt5x11extras5 libreoffice-help-common
  libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian
  libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
  libvncclient1 libxcb-composite0 mythes-en-us node-normalize.css totem-common
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  system-config-printer
The following NEW packages will be installed:
  printer-driver-cups-pdf
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 37.3 kB of archives.
After this operation, 254 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bullseye/main amd64 printer-driver-cups-pdf
amd64 3.0.1-9 [37.3 kB]
Fetched 37.3 kB in 0s (189 kB/s)
Selecting previously unselected package printer-driver-cups-pdf.
(Reading database ... 150377 files and directories currently installed.)
Preparing to unpack .../printer-driver-cups-pdf_3.0.1-9_amd64.deb ...
Unpacking printer-driver-cups-pdf (3.0.1-9) ...
Setting up printer-driver-cups-pdf (3.0.1-9) ...
Processing triggers for cups (2.3.3op2-3+deb11u1) ...
Updating PPD files for cups-filters ...
Updating PPD files for cups-pdf ...
PPD for printer PDF updated
berkay@berkay:~$
```

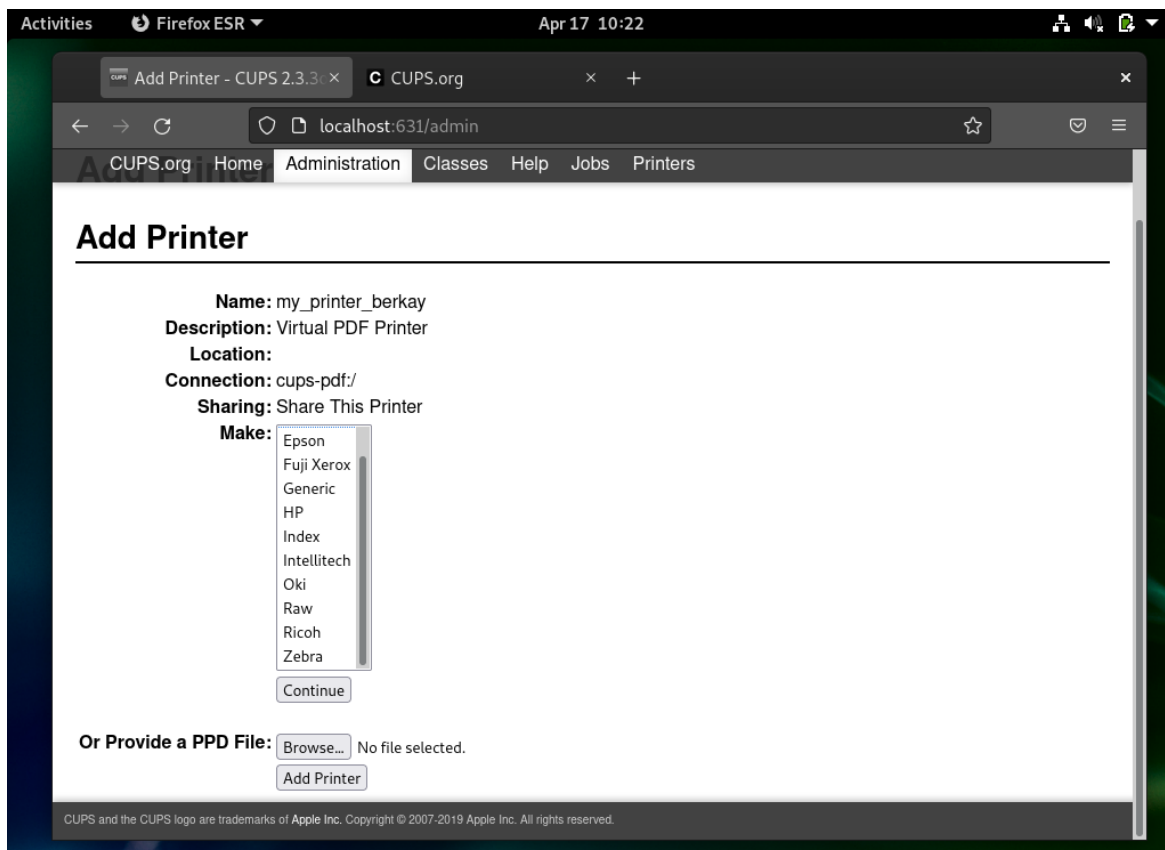
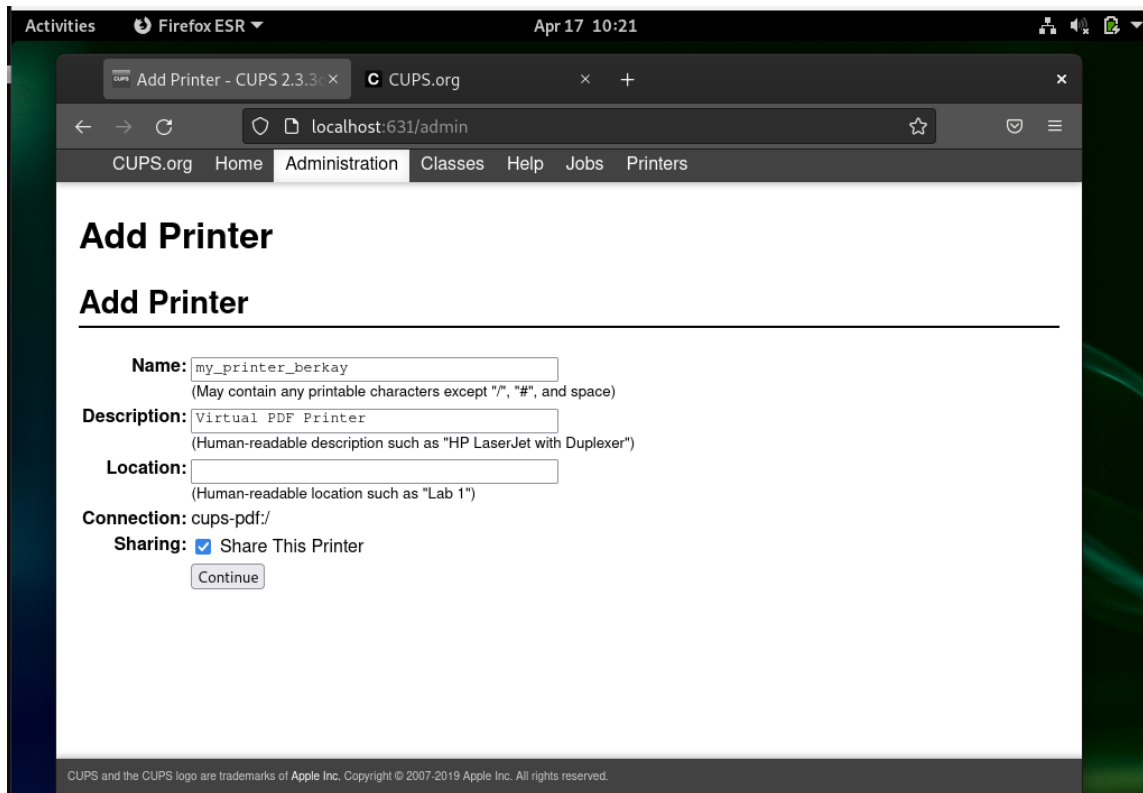
```
Activities Terminal Apr 17 10:11

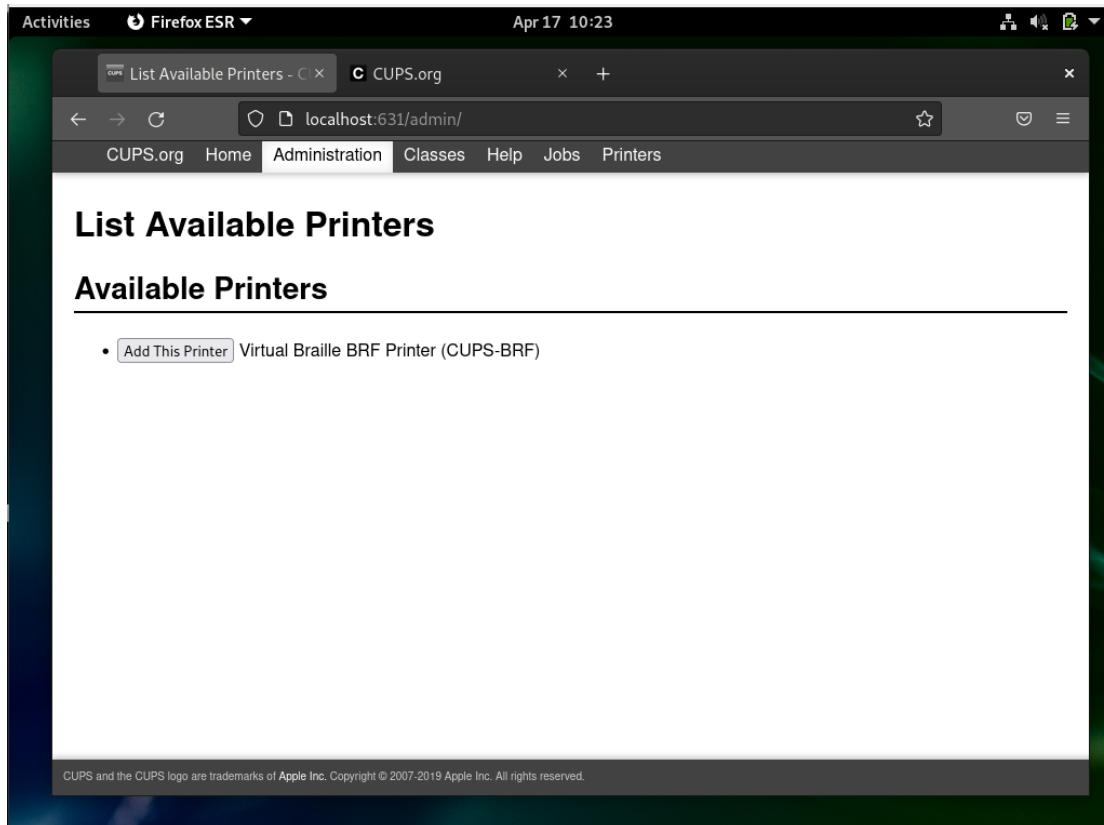
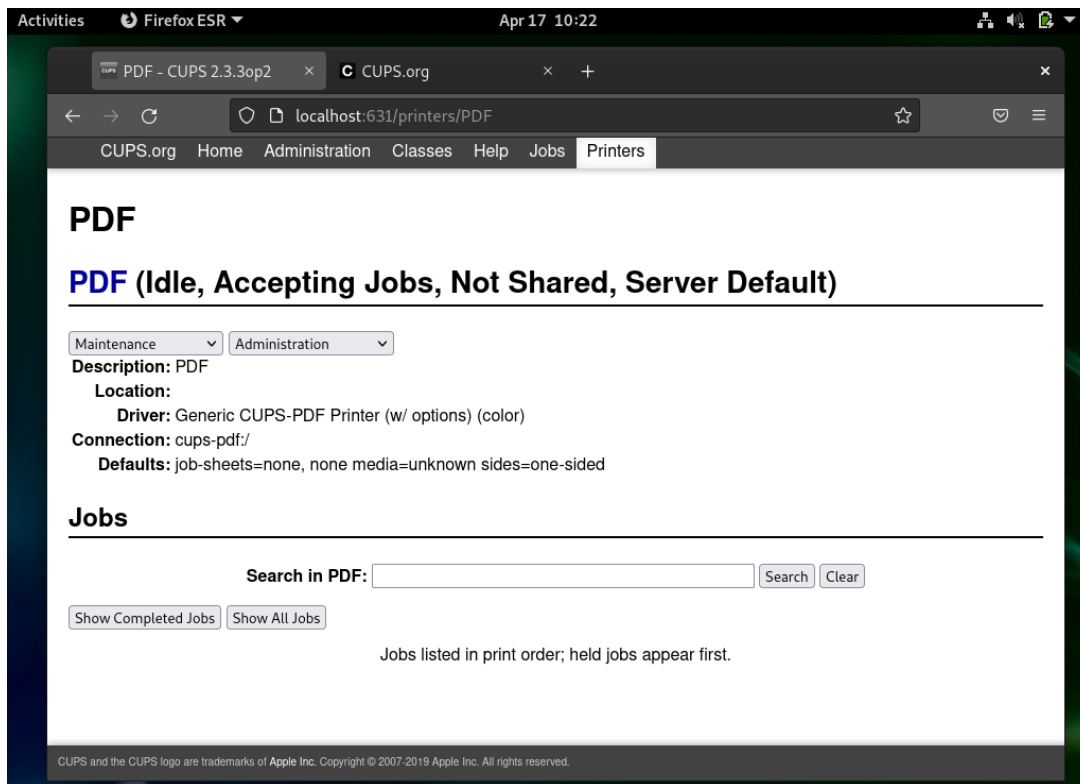
berkay@berkay: ~

berkay@berkay:~$ sudo apt-get install printer-driver-cups-pdf
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
printer-driver-cups-pdf is already the newest version (3.0.1-9).
The following packages were automatically installed and are no longer required:
  gir1.2-totem-1.0 hyphen-en-us libaribb24-0 libcdcb2 libdvbpsi10 libebml5
  libxml10 libmad0 libmatroska7 libopenmpt-modplug1 libplacebo72
  libprotobuf-lite23 libproxy-tools libqt5x11extras5 libreoffice-help-common
  libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian
  libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
  libvncclient1 libxcb-composite0 mythes-en-us node-normalize.css
  totem-common
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
berkay@berkay:~$
```

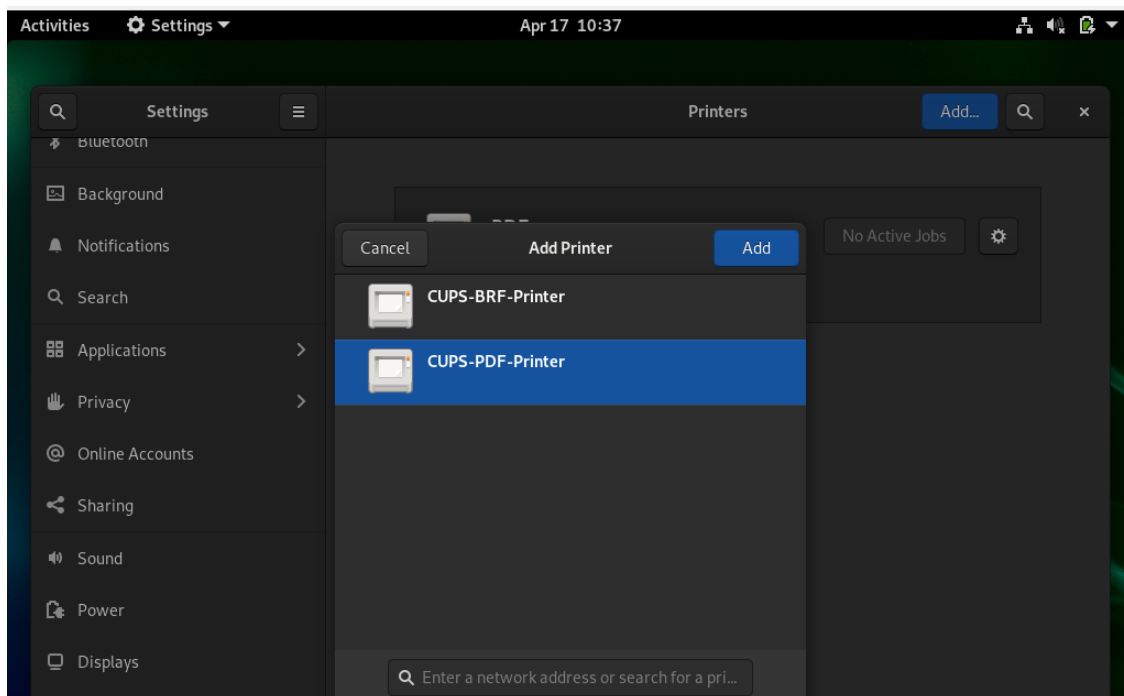
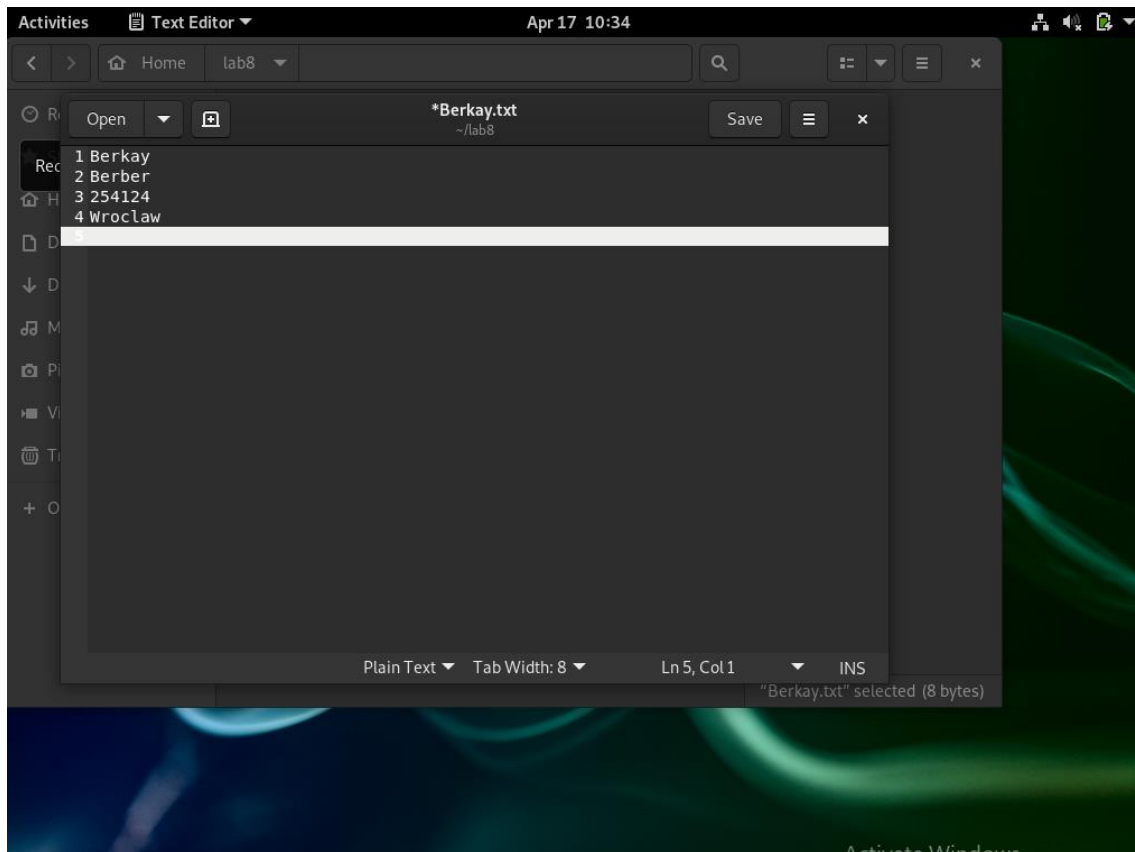
## Adding PDF printer:

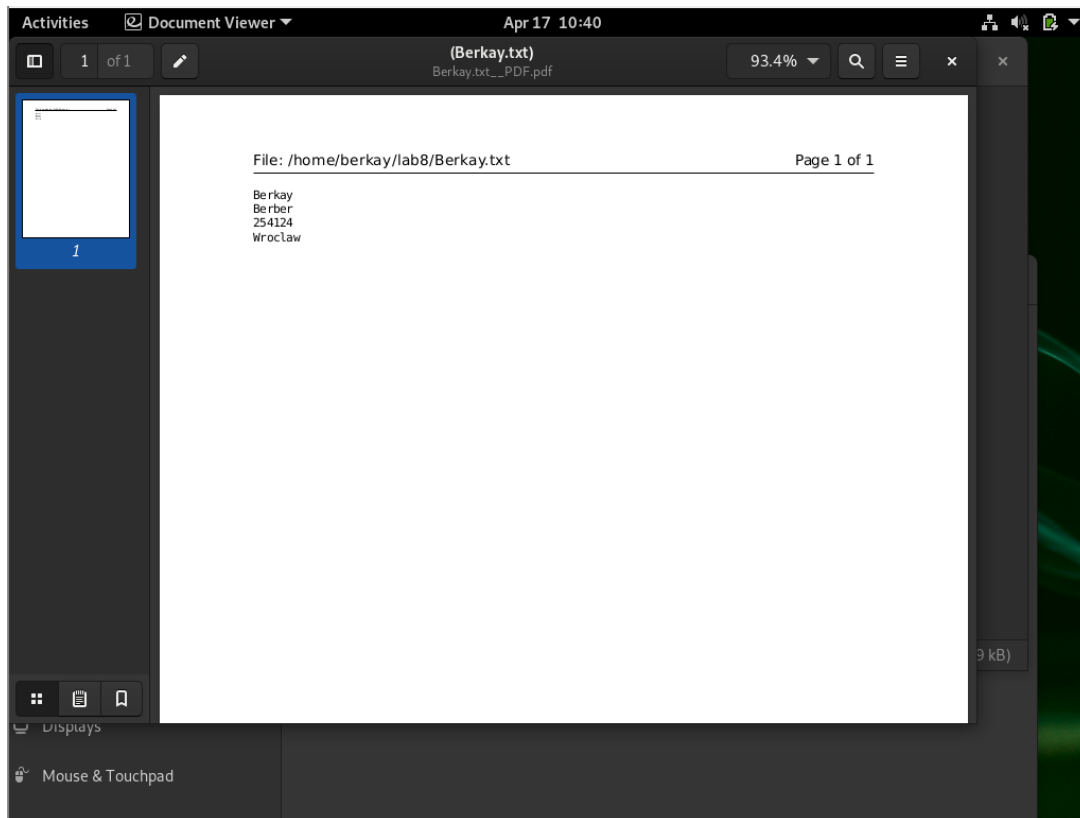
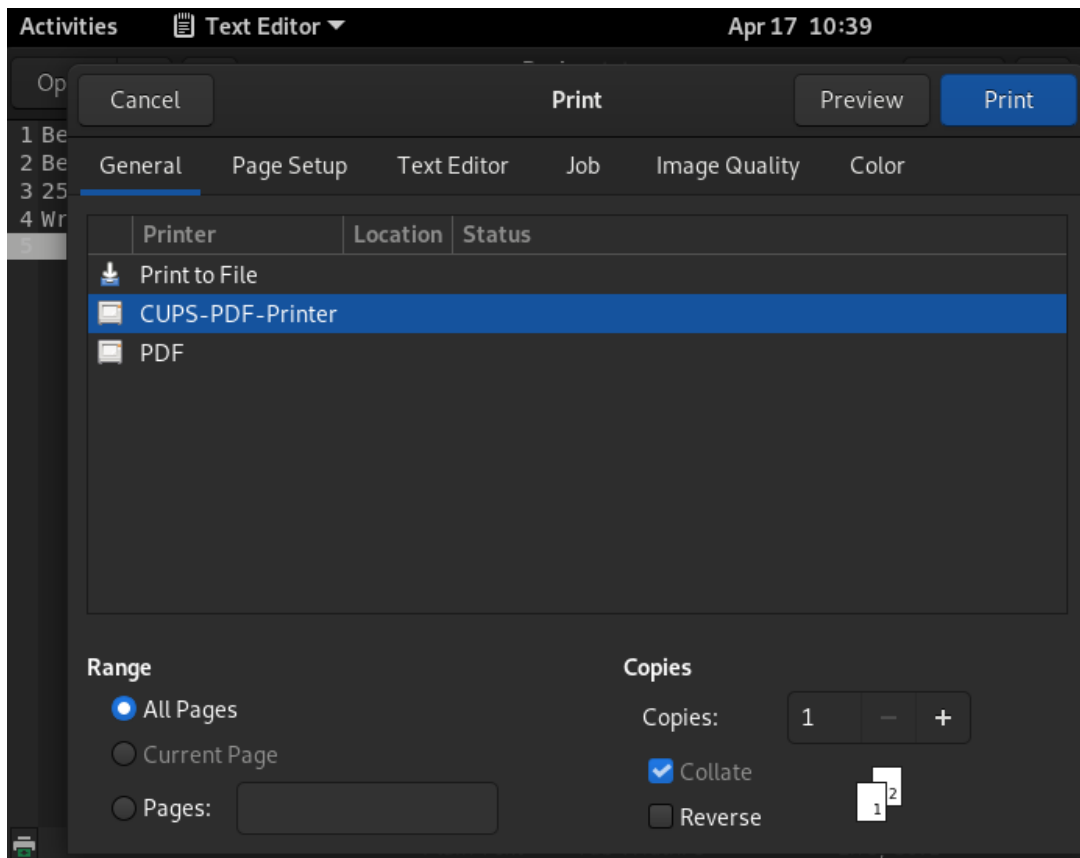




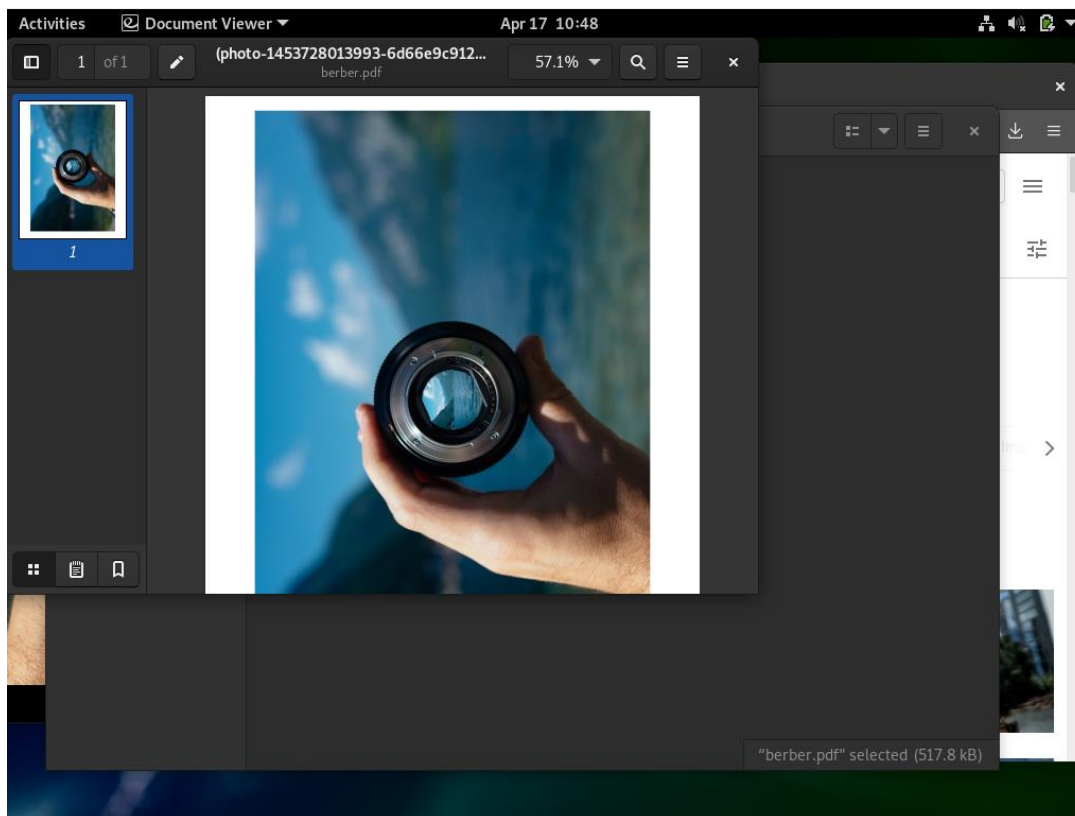
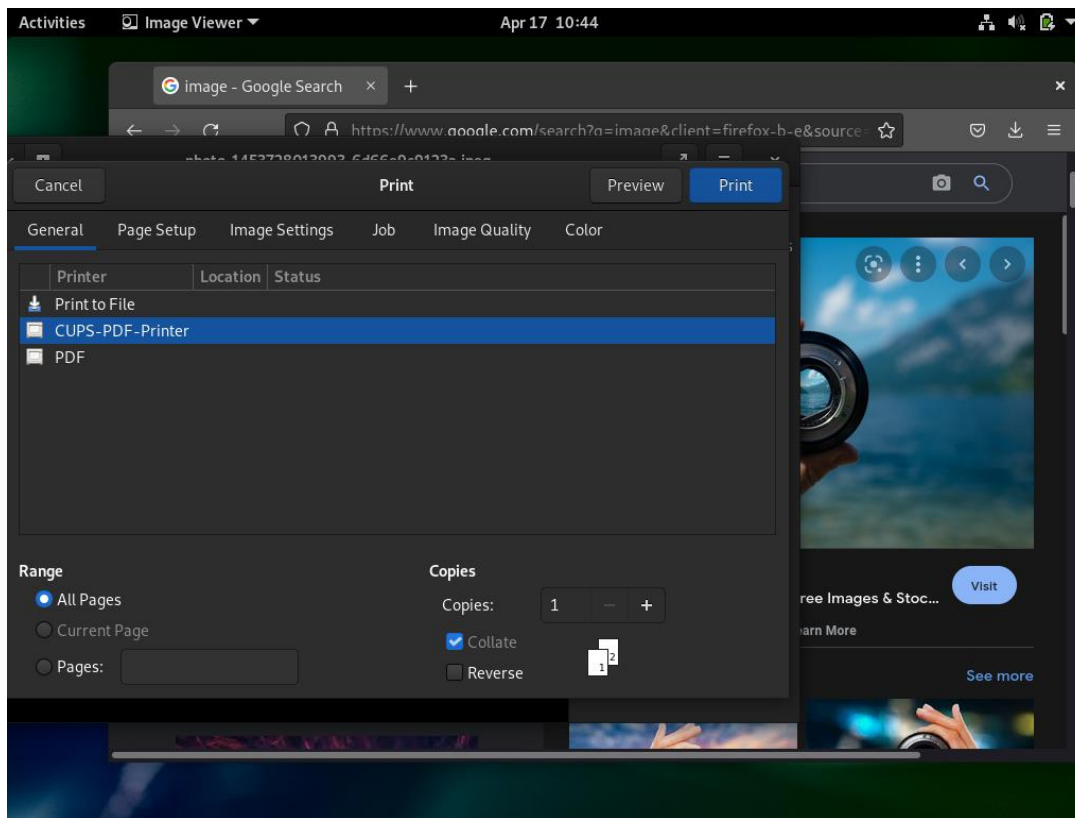


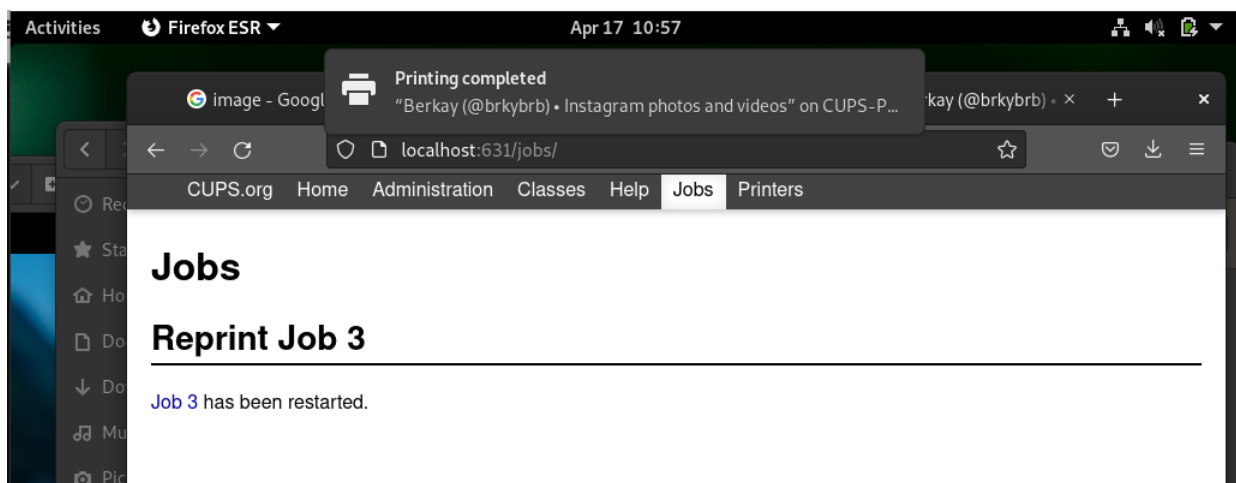
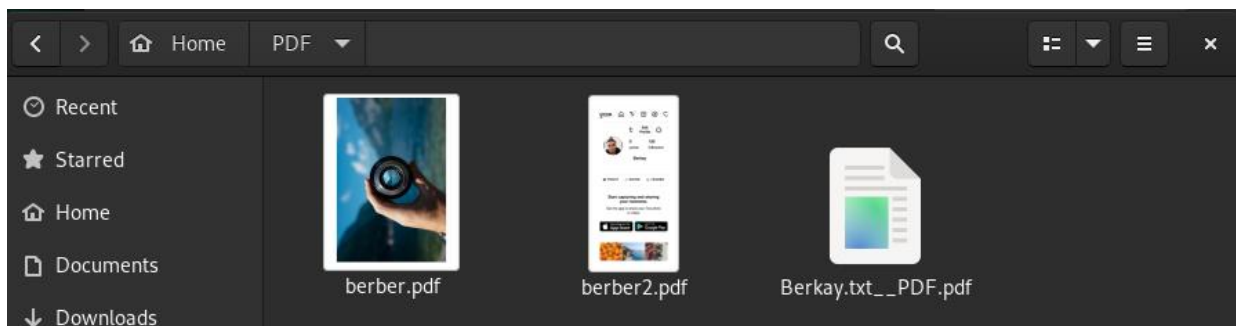
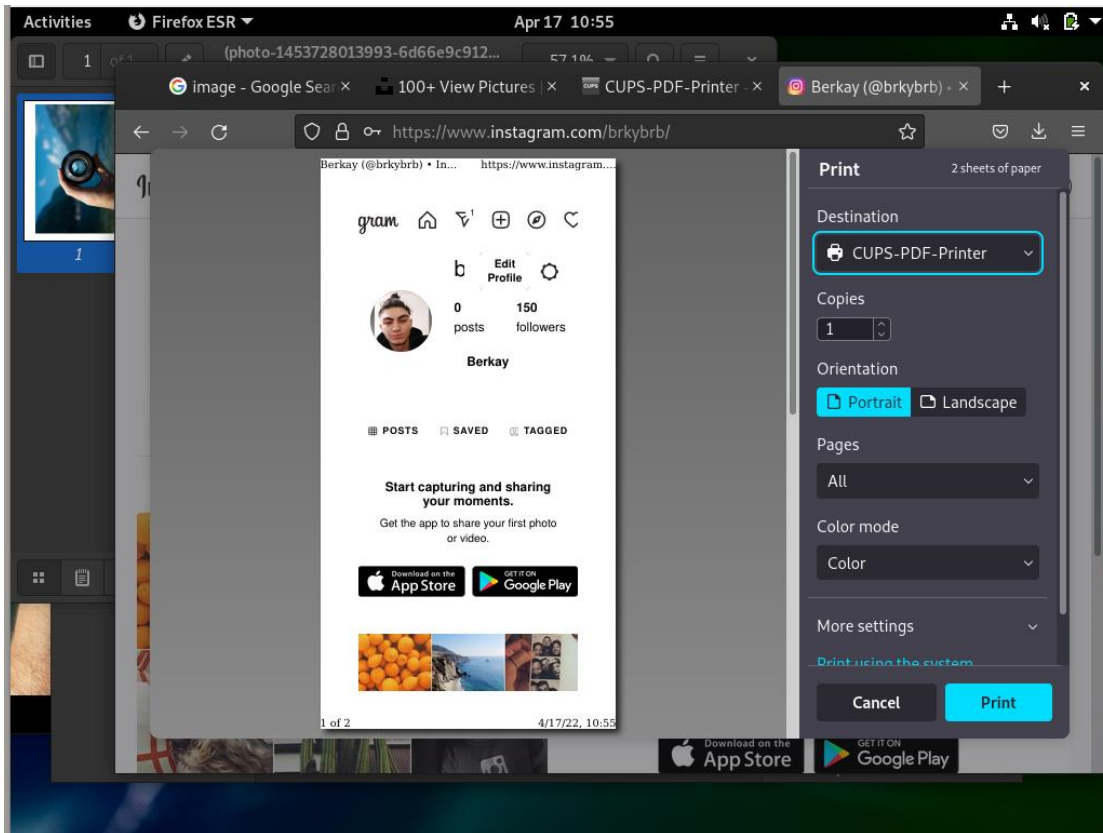
## Printer Testing:

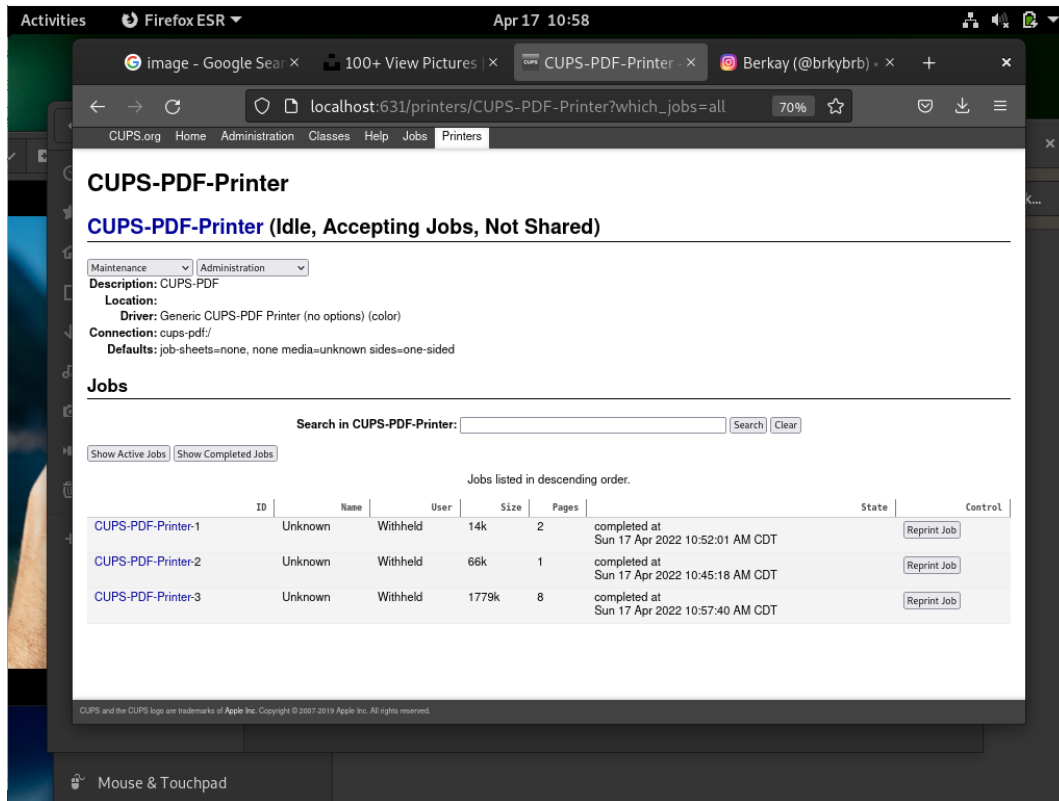






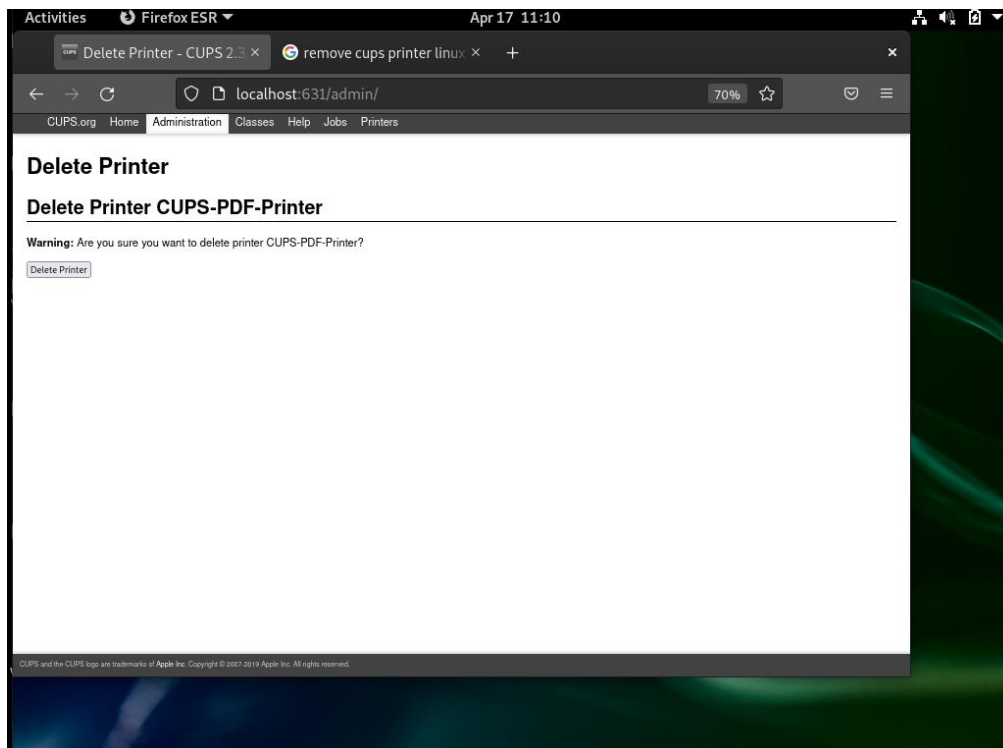






```
berkay@berkay:~$ sudo service cups restart
```

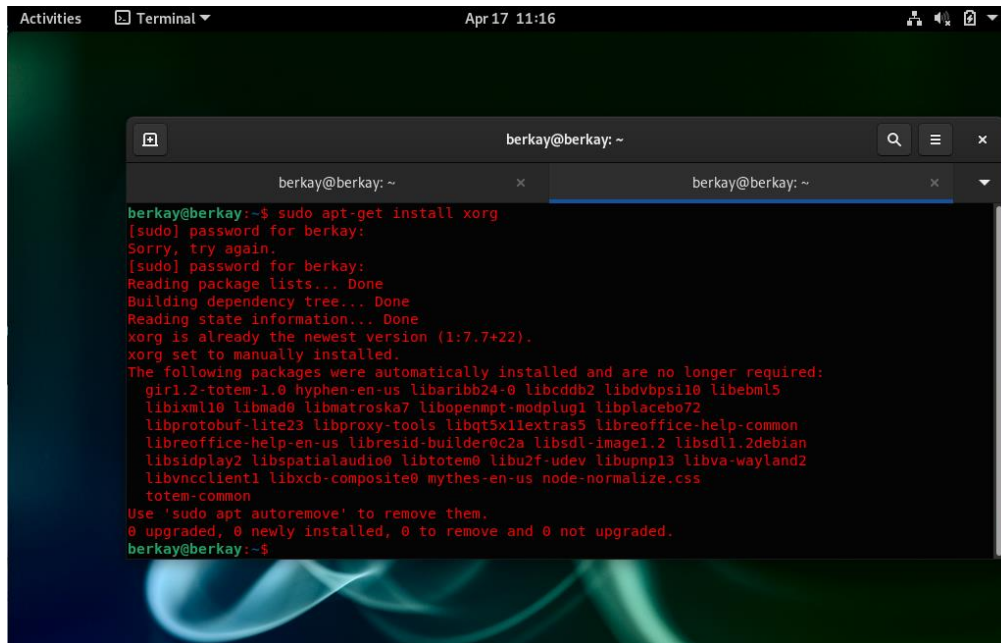
## Printer deletion:



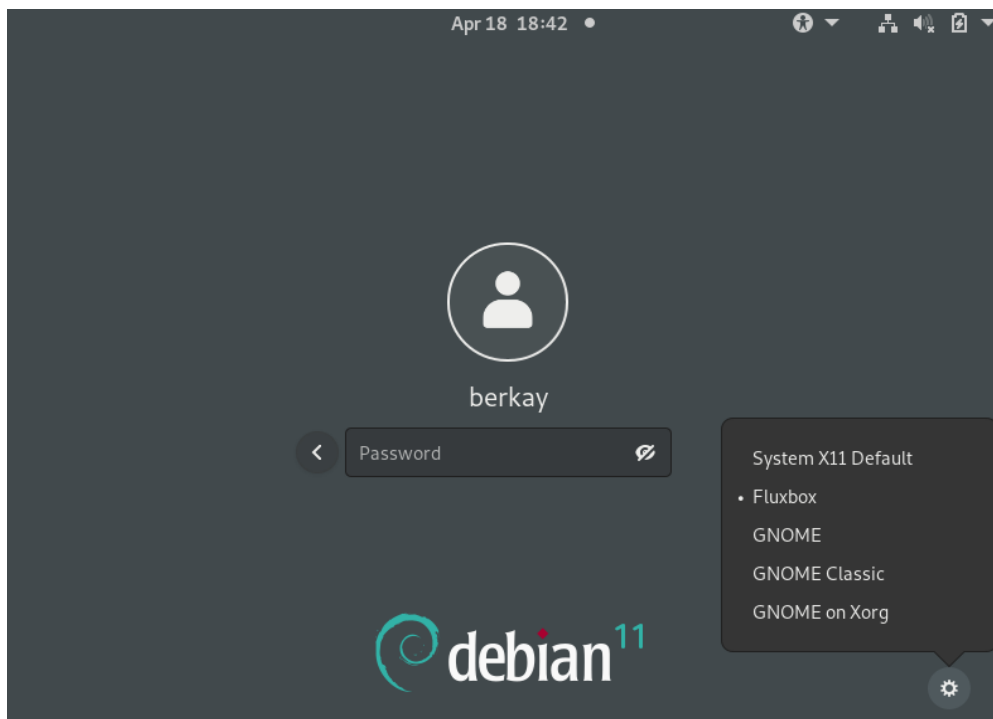
## TASK2: Fluxbox graphic environment installation

### Task 2.1) xorg installation,fluxbox,reboot

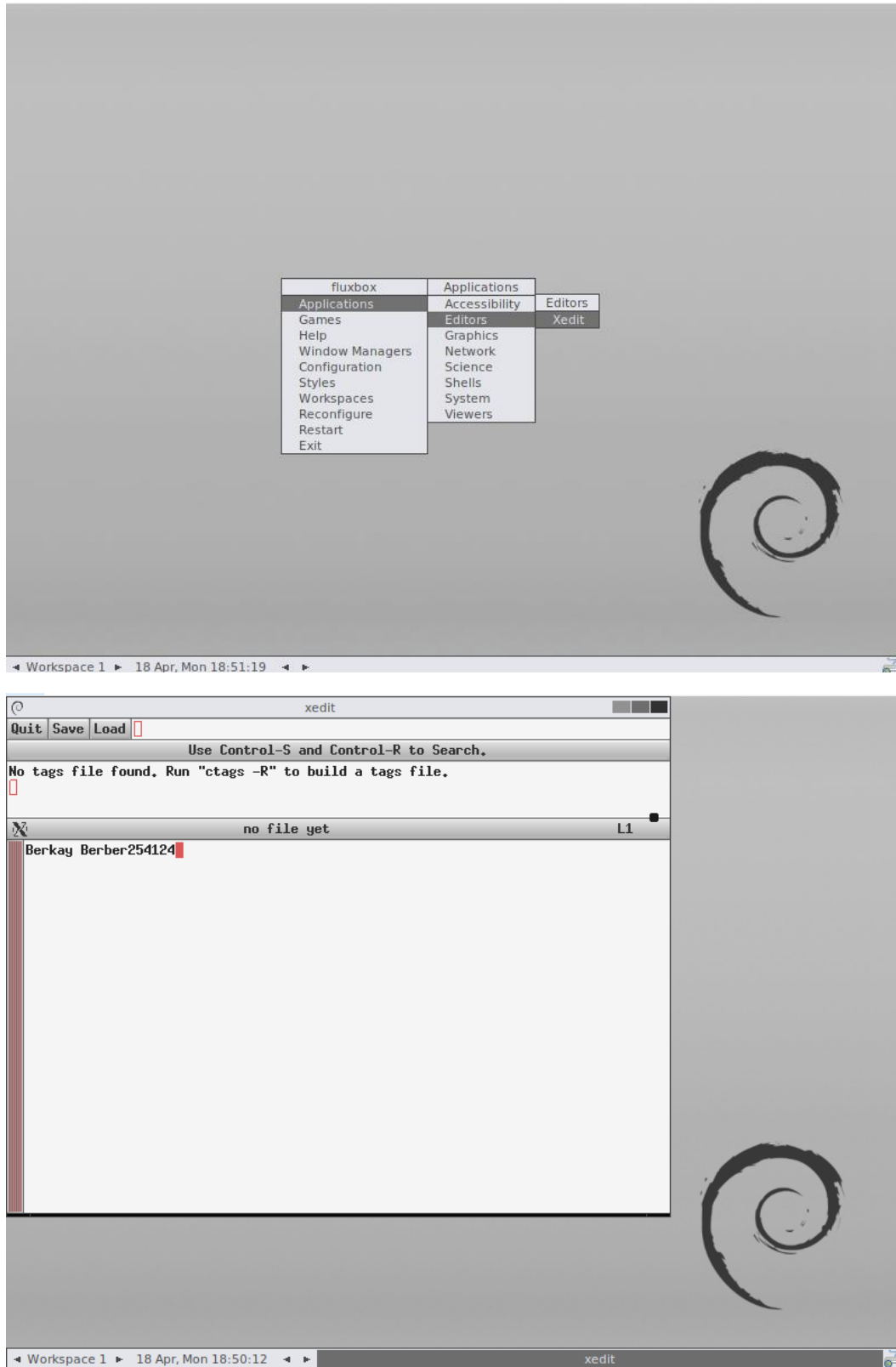
Even though I installed the fluxbox image has been deleted after I reboot the system, so I couldn't take a screenshot of it. However, proof of installation has been presented when rebooting.



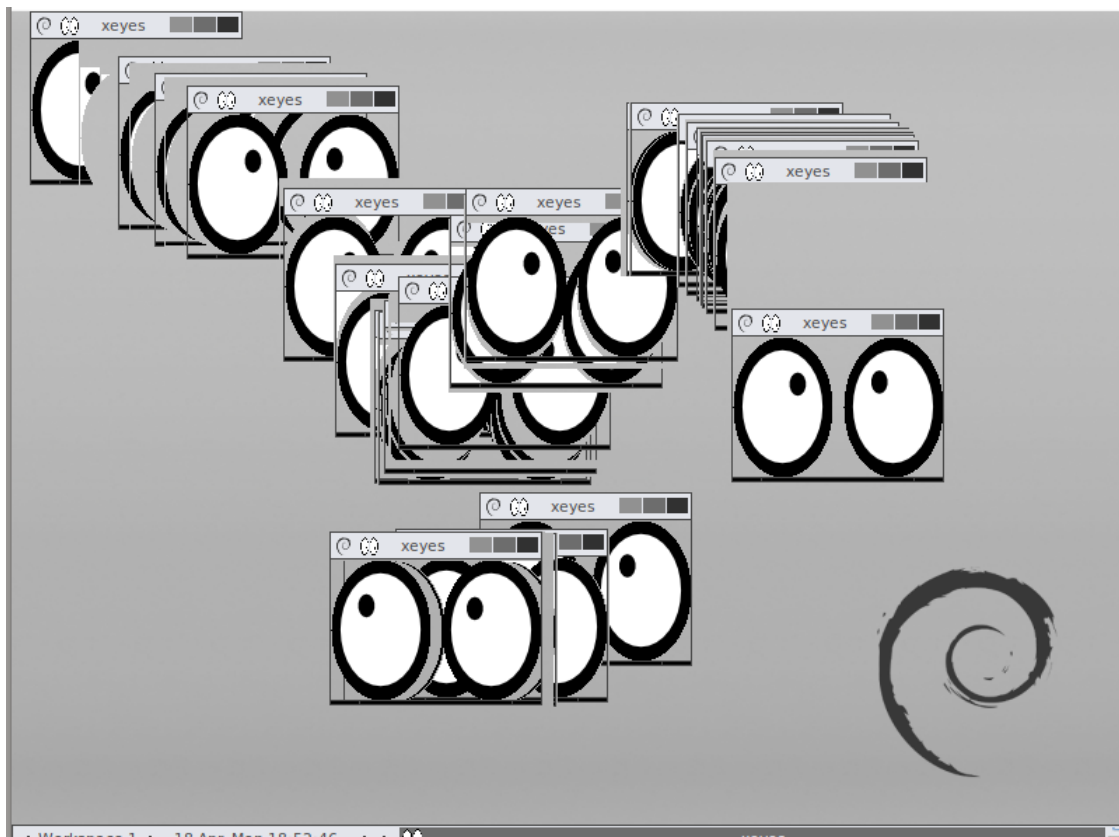
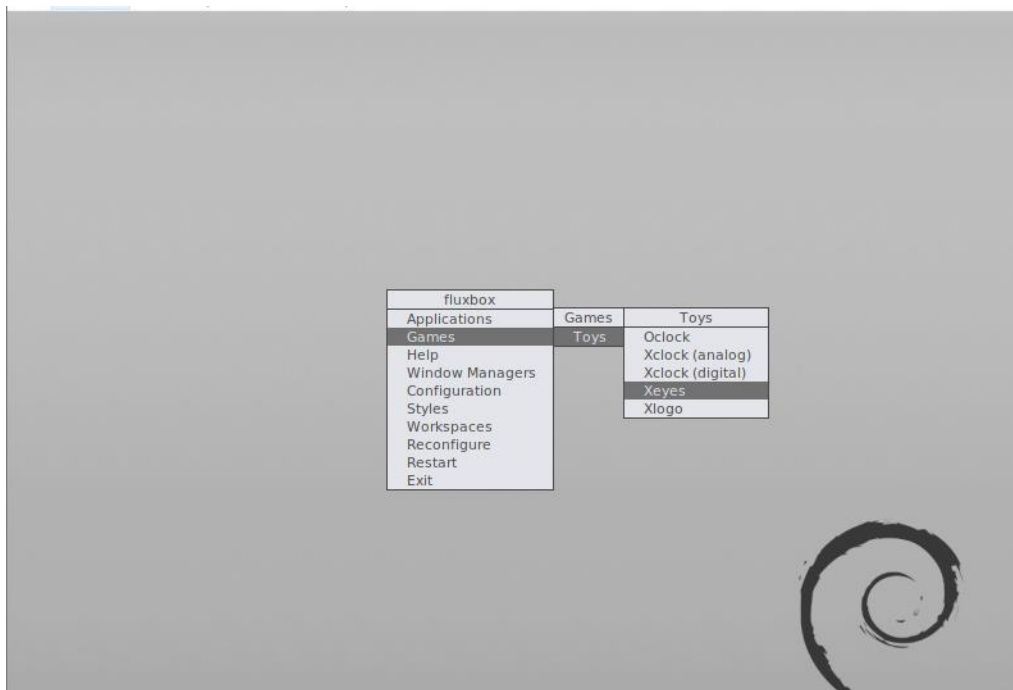
```
berkay@berkay:~$ sudo apt-get install xorg
[sudo] password for berkay:
Sorry, try again.
[sudo] password for berkay:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
xorg is already the newest version (1:7.7+22).
xorg set to manually installed.
The following packages were automatically installed and are no longer required:
  gir1.2-totem-1.0 hyphen-en-us libaribb24-0 libcdcb2 libdvbpsi0 libebml5
  libixml0 libmad0 libmatroska7 libopenmpt-modplug1 libplacebo72
  libprotobuf-lite23 libproxy-tools libqt5x11extras5 libreoffice-help-common
  libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian
  libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
  libvncclient1 libxcb-composite0 mythes-en-us node-normalize.css
  totem-common
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
berkay@berkay:~$
```



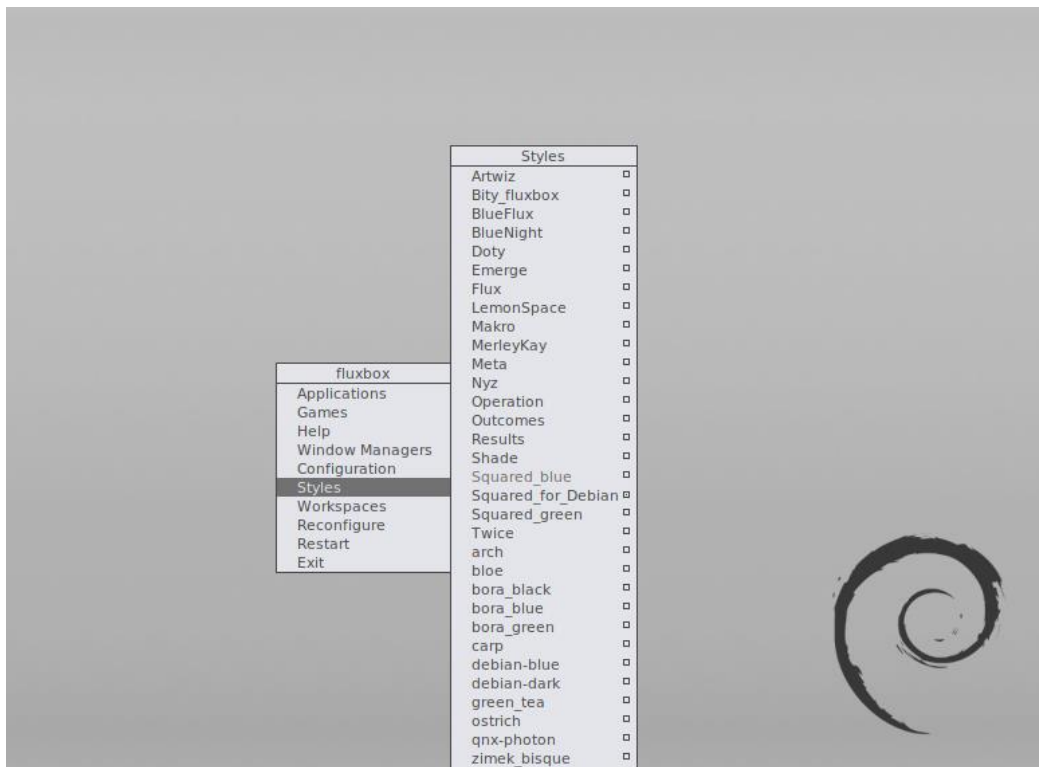
a) *Run a text editor.*



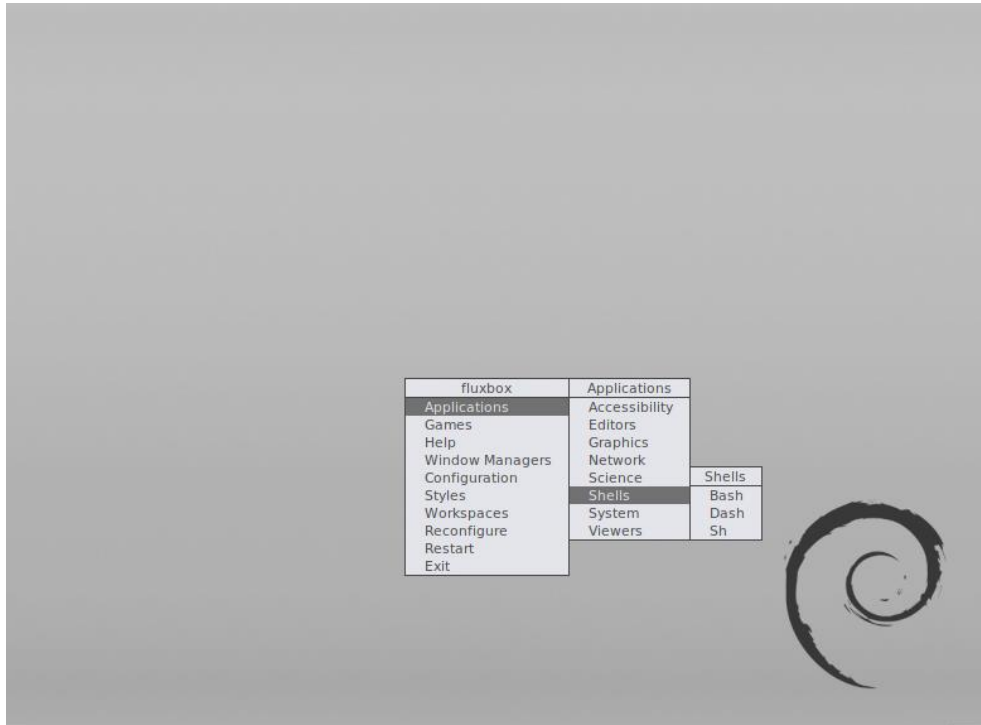
b) See the games offer. Test the Xeyes game and the maximize window function.



c) Change style of the menu and then return to the original



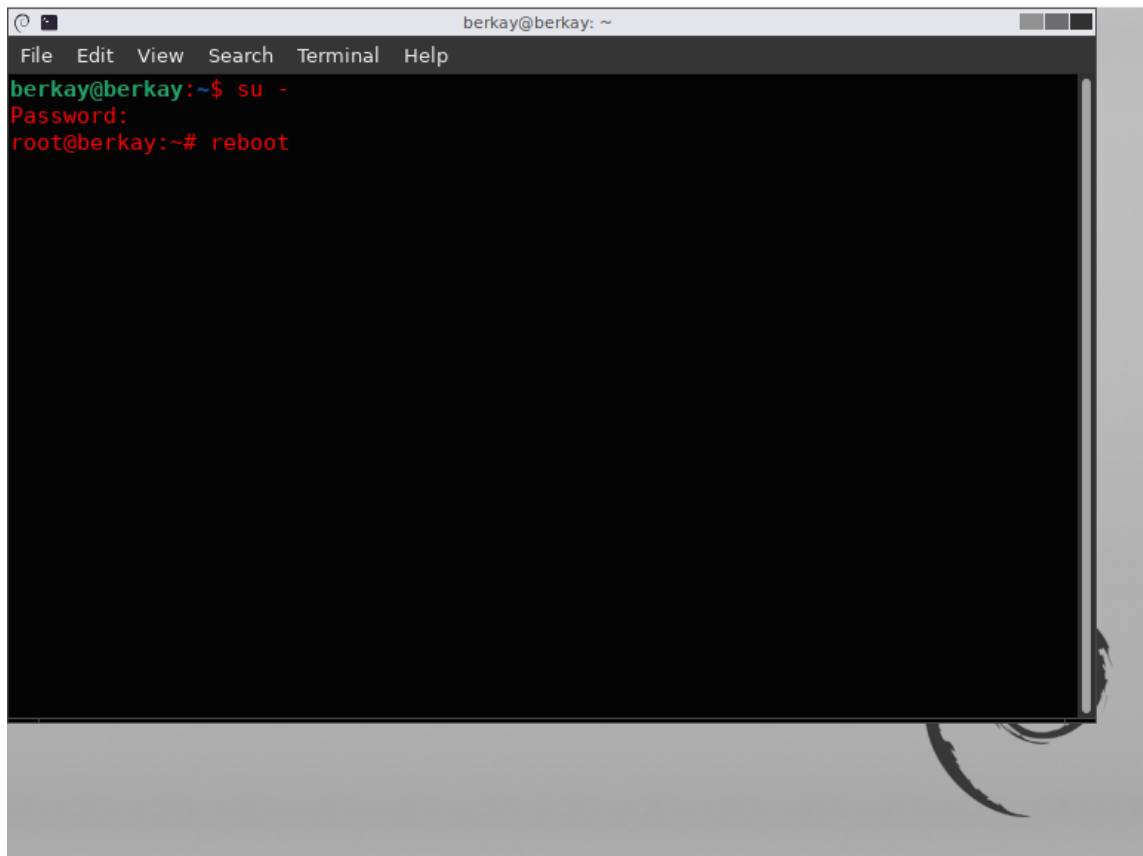
d) Check available development tools.



## 2. Run system help and terminal

Options	Sections	Xman Help
<p><b>XMAN is an X Window System manual browsing tool.</b></p> <p><b>GETTING STARTED</b></p> <p>By default, xman starts by creating a small window that contains three "buttons" (places on which to click a pointer button). Two of these buttons, Help and Quit, are self-explanatory. The third, Manual Page, creates a new manual page browser window; you may use this button to open a new manual page any time xman is running.</p> <p>A new manual page starts up displaying this help information. The manual page contains three sections. In the upper left corner are two menu buttons. When the mouse is clicked on either of these buttons a menu is popped up. The contents of these menus is described below. Directly to the right of the menu buttons is an informational display. This display usually contains the name of the directory or manual page being displayed. It is also used to display warning messages and the current version of xman. The last and largest section is the information display. This section of the application contains either a list of manual pages to choose from or the text of a manual page.</p> <p>To use xman pull down the Sections menu to select a manual section. When the section is displayed, click the left pointer button on the name of the manual page that you would like to see. Xman will replace the directory listing with the manual page you selected.</p> <p>That should be enough to get you started. Once you understand the basics of how to use xman, take a look at the rest of this file to see the advanced features that are available to make using xman fast and</p>		





*After reboot fluxbox runs again, but it can be changed in the dropdown menu on the login screen.*

