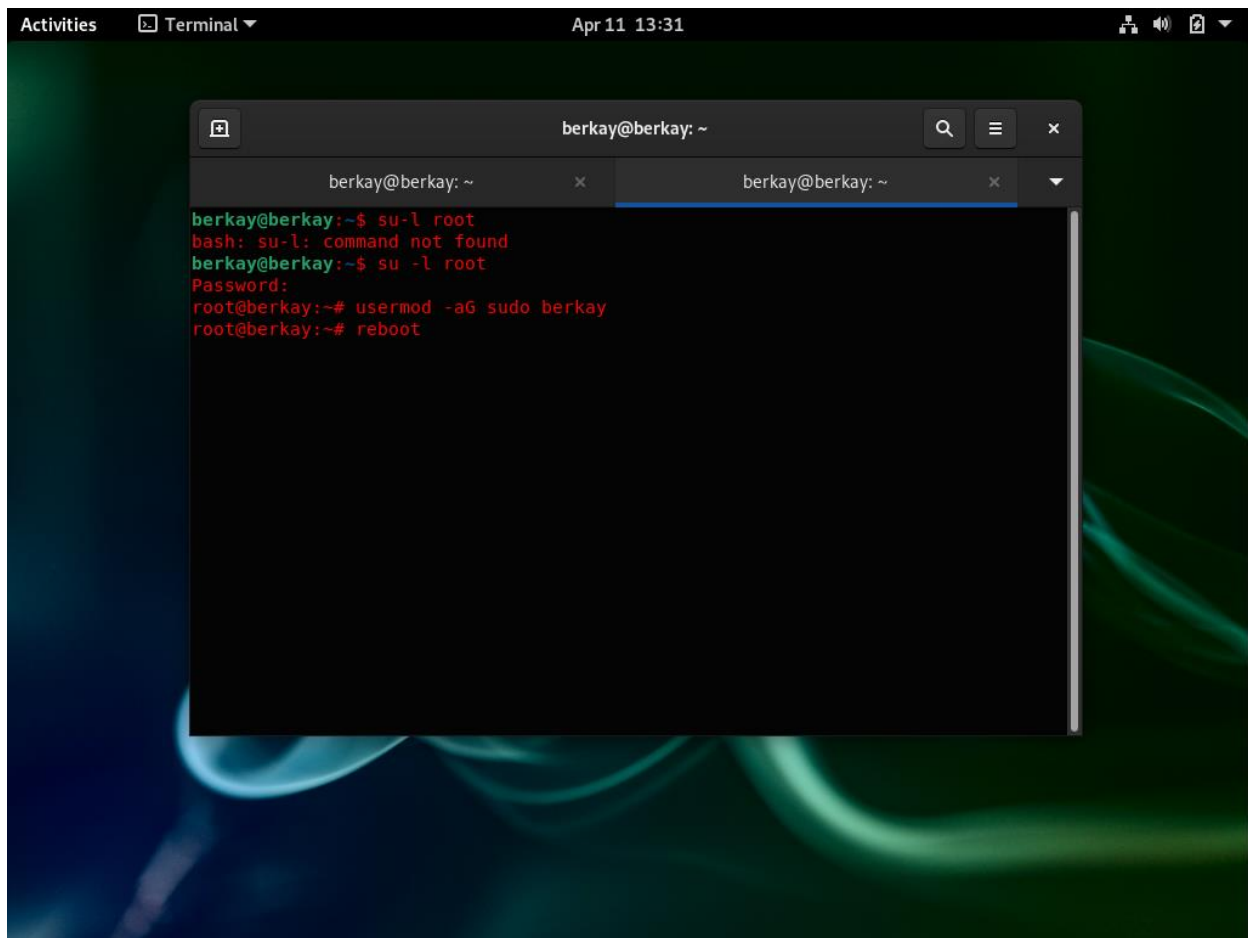


I have reinstalled the virtual machine Debian11 due to technical issues. I changed the background image and hostname from berkayberber to berkay as presented in this lab.

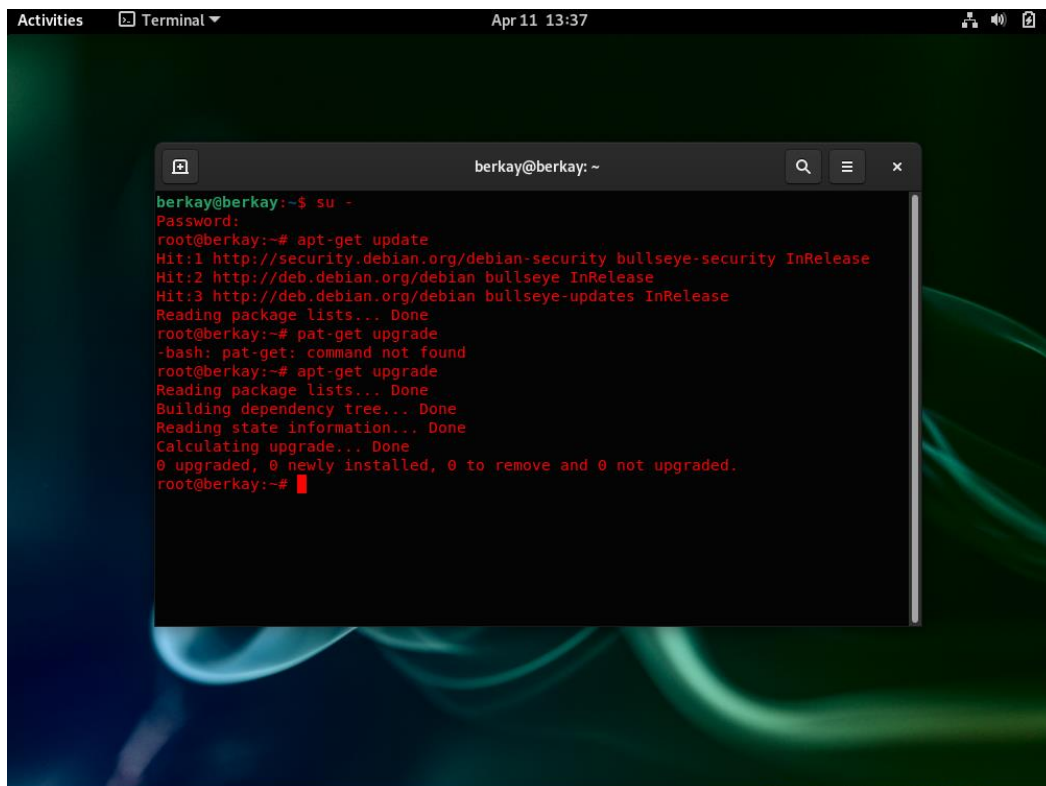
Prerequisites: 1



The screenshot shows a terminal window titled "berkay@berkay: ~" with a dark background and green accents. The terminal displays the following commands and output:

```
berkay@berkay:~$ su-l root
bash: su-l: command not found
berkay@berkay:~$ su -l root
Password:
root@berkay:~# usermod -aG sudo berkay
root@berkay:~# reboot
```

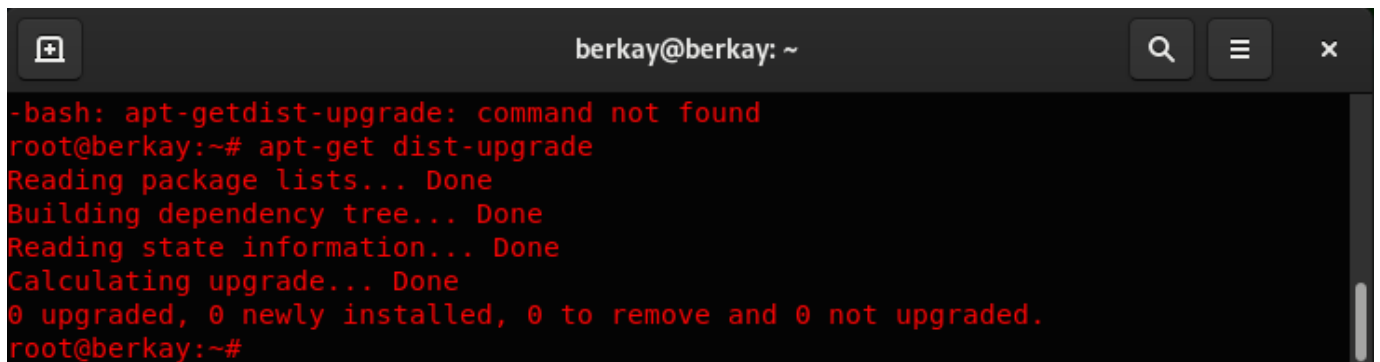
Prerequisites: 2 and system upgrades



A terminal window titled 'berkay@berkay: ~' is shown. The user enters 'su -' to become root. Then, 'apt-get update' is run, showing three hits from Debian repositories. Next, 'pat-get upgrade' is attempted but fails with 'command not found'. Finally, 'apt-get upgrade' is run, showing it reads package lists, builds a dependency tree, and calculates the upgrade, resulting in 0 packages being upgraded.

```
berkay@berkay:~$ su -
Password:
root@berkay:~# 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
Reading package lists... Done
root@berkay:~# pat-get upgrade
-bash: pat-get: command not found
root@berkay:~# apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@berkay:~#
```

Apt-get upgrade installs new packages:

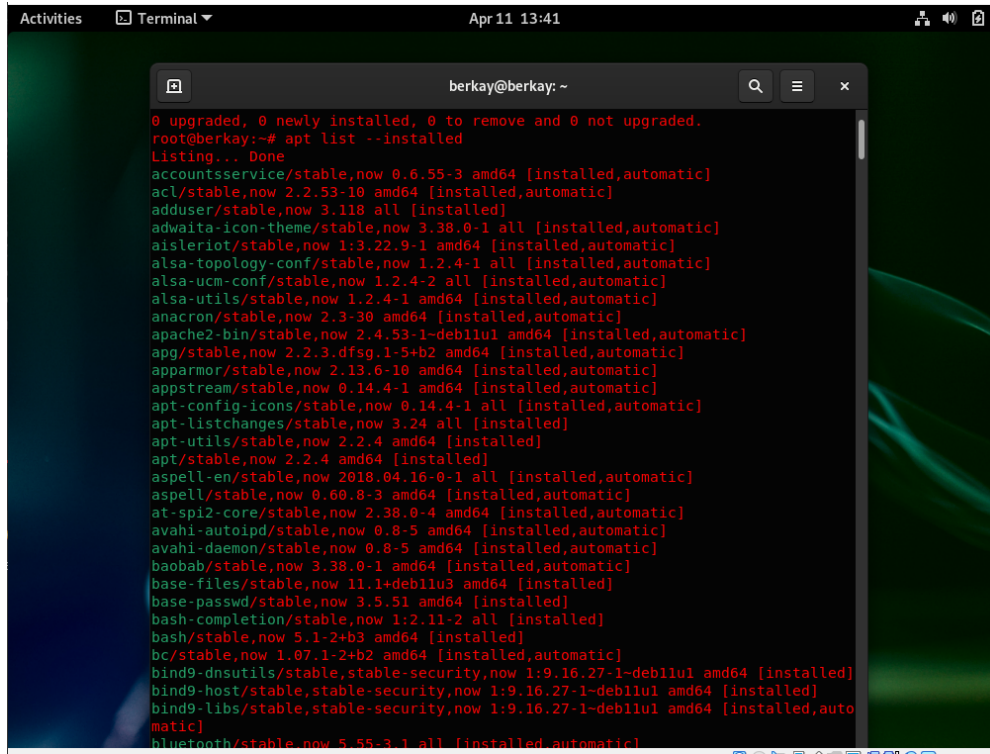


A terminal window titled 'berkay@berkay: ~' is shown. The user enters 'apt-get dist-upgrade' (after a failed 'apt-getdist-upgrade' command). The output shows it reads package lists, builds a dependency tree, and calculates the upgrade, resulting in 0 packages being upgraded.

```
-bash: apt-getdist-upgrade: command not found
root@berkay:~# apt-get dist-upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@berkay:~#
```

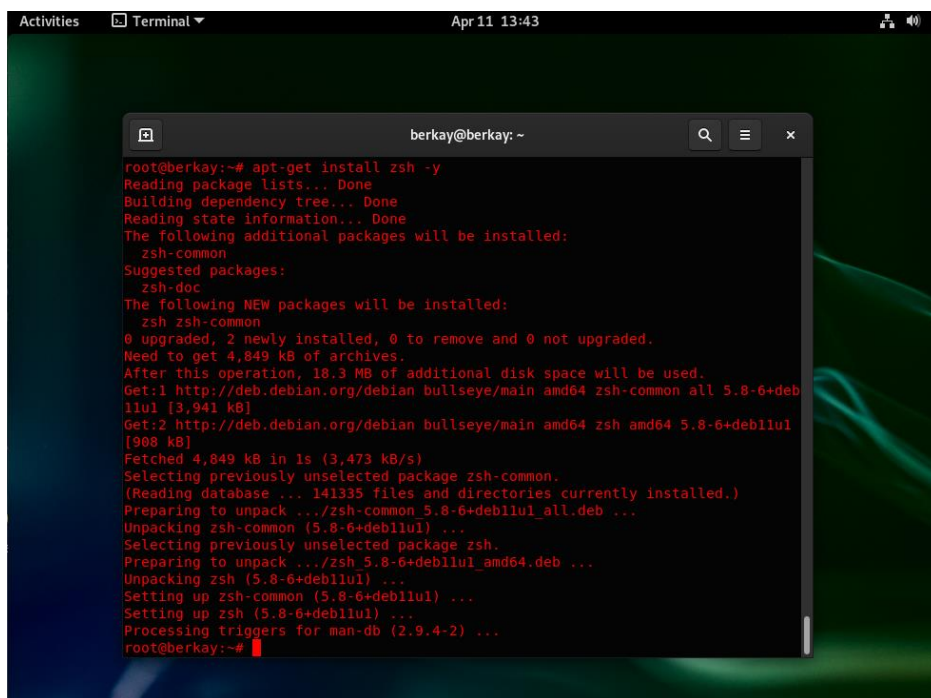
TASK 1. APT package manager:

Apt list --installed command has used in order to display the all the packages have been installed. Zsh was not installed so iwill install it.



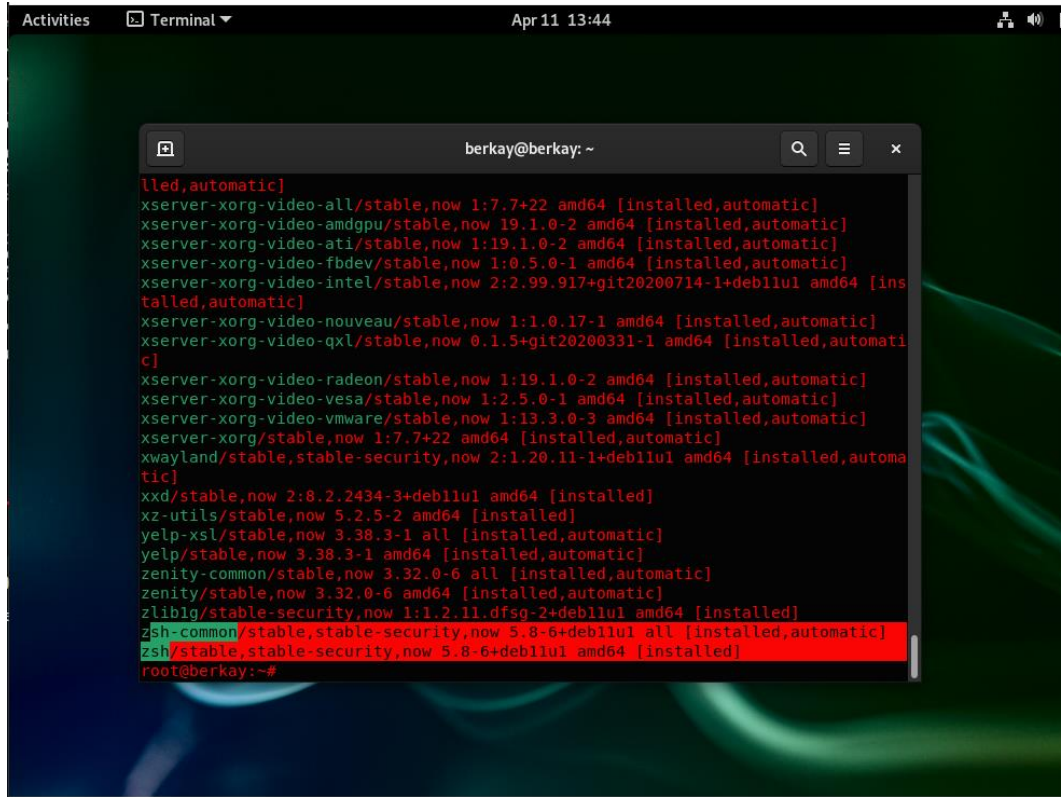
```
berkay@berkay: ~  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
root@berkay:~# apt list --installed  
Listing... Done  
accountsservice/stable,now 0.6.55-3 amd64 [installed,automatic]  
acl/stable,now 2.2.53-10 amd64 [installed,automatic]  
adduser/stable,now 3.118 all [installed]  
adwaita-icon-theme/stable,now 3.38.0-1 all [installed,automatic]  
aisleriot/stable,now 1:3.22.9-1 amd64 [installed,automatic]  
alsa-topology-conf/stable,now 1.2.4-1 all [installed,automatic]  
alsa-ucm-conf/stable,now 1.2.4-2 all [installed,automatic]  
alsa-utils/stable,now 1.2.4-1 amd64 [installed,automatic]  
anacron/stable,now 2.3-30 amd64 [installed,automatic]  
apache2-bin/stable,now 2.4.53-1-deb11u1 amd64 [installed,automatic]  
apg/stable,now 2.2.3.dfsg.1-5+b2 amd64 [installed,automatic]  
apparmor/stable,now 2.13.6-10 amd64 [installed,automatic]  
appstream/stable,now 0.14.4-1 amd64 [installed,automatic]  
apt-config-icons/stable,now 0.14.4-1 all [installed,automatic]  
apt-listchanges/stable,now 3.24 all [installed]  
apt-utils/stable,now 2.2.4 amd64 [installed]  
apt/stable,now 2.2.4 amd64 [installed]  
aspell-en/stable,now 2018.04.16-0-1 all [installed,automatic]  
aspell/stable,now 0.60.8-3 amd64 [installed,automatic]  
at-spi2-core/stable,now 2.38.0-4 amd64 [installed,automatic]  
avahi-autoipd/stable,now 0.8-5 amd64 [installed,automatic]  
avahi-daemon/stable,now 0.8-5 amd64 [installed,automatic]  
baobab/stable,now 3.38.0-1 amd64 [installed,automatic]  
base-files/stable,now 11.1+deb11u3 amd64 [installed]  
base-passwd/stable,now 3.5.51 amd64 [installed]  
bash-completion/stable,now 1:2.11-2 all [installed]  
bash/stable,now 5.1-2+b3 amd64 [installed]  
bc/stable,now 1.07.1-2+b2 amd64 [installed,automatic]  
bind9-dnsutils/stable,stable-security,now 1:9.16.27-1-deb11u1 amd64 [installed]  
bind9-host/stable,stable-security,now 1:9.16.27-1-deb11u1 amd64 [installed]  
bind9-libs/stable,stable-security,now 1:9.16.27-1-deb11u1 amd64 [installed,auto  
matic]  
bluetooth/stable,now 5.55-3-1 all [installed,automatic]
```

Apt-get install zsh -y used to install zsh



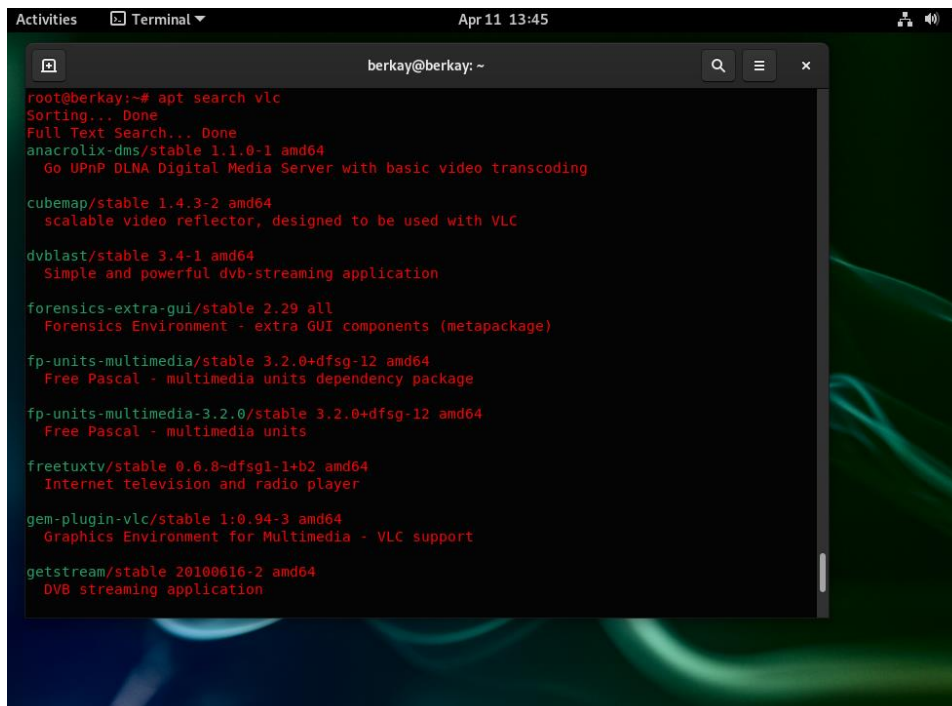
```
berkay@berkay: ~  
root@berkay:~# apt-get install zsh -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  zsh-common  
Suggested packages:  
  zsh-doc  
The following NEW packages will be installed:  
  zsh zsh-common  
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.  
Need to get 4,849 kB of archives.  
After this operation, 18.3 MB of additional disk space will be used.  
Get:1 http://deb.debian.org/debian bullseye/main amd64 zsh-common all 5.8-6+deb  
11u1 [3,941 kB]  
Get:2 http://deb.debian.org/debian bullseye/main amd64 zsh amd64 5.8-6+deb11u1  
[908 kB]  
Fetched 4,849 kB in 1s (3,473 kB/s)  
Selecting previously unselected package zsh-common.  
(Reading database ... 141335 files and directories currently installed.)  
Preparing to unpack .../zsh-common_5.8-6+deb11u1_all.deb ...  
Unpacking zsh-common (5.8-6+deb11u1) ...  
Selecting previously unselected package zsh.  
Preparing to unpack .../zsh_5.8-6+deb11u1_amd64.deb ...  
Unpacking zsh (5.8-6+deb11u1) ...  
Setting up zsh-common (5.8-6+deb11u1) ...  
Setting up zsh (5.8-6+deb11u1) ...  
Processing triggers for man-db (2.9.4-2) ...  
root@berkay:~#
```

Apt list -installed command used in order to display all the installed packages which includes zsh packages either after installation process done.



```
berkay@berkay: ~  
llled,automatic]  
xserver-xorg-video-all/stable,now 1:7.7+22 amd64 [installed,automatic]  
xserver-xorg-video-amdgpu/stable,now 19.1.0-2 amd64 [installed,automatic]  
xserver-xorg-video-ati/stable,now 1:19.1.0-2 amd64 [installed,automatic]  
xserver-xorg-video-fbdev/stable,now 1:0.5.0-1 amd64 [installed,automatic]  
xserver-xorg-video-intel/stable,now 2:2.99.917+git20200714-1+deb11u1 amd64 [ins  
talled,automatic]  
xserver-xorg-video-nouveau/stable,now 1:1.0.17-1 amd64 [installed,automatic]  
xserver-xorg-video-qxl/stable,now 0.1.5+git20200331-1 amd64 [installed,automa  
tic]  
xserver-xorg-video-radeon/stable,now 1:19.1.0-2 amd64 [installed,automatic]  
xserver-xorg-video-vesa/stable,now 1:2.5.0-1 amd64 [installed,automatic]  
xserver-xorg-video-vmware/stable,now 1:13.3.0-3 amd64 [installed,automatic]  
xserver-xorg/stable,now 1:7.7+22 amd64 [installed,automatic]  
xwayland/stable,stable-security,now 2:1.20.11-1+deb11u1 amd64 [installed,automa  
tic]  
xxd/stable,now 2:8.2.2434-3+deb11u1 amd64 [installed]  
xz-utils/stable,now 5.2.5-2 amd64 [installed]  
yelp-xsl/stable,now 3.38.3-1 all [installed,automatic]  
yelp/stable,now 3.38.3-1 amd64 [installed,automatic]  
zenity-common/stable,now 3.32.0-6 all [installed,automatic]  
zenity/stable,now 3.32.0-6 amd64 [installed,automatic]  
zlib1g/stable-security,now 1:1.2.11.dfsg-2+deb11u1 amd64 [installed]  
zsh-common/stable,stable-security,now 5.8-6+deb11u1 all [installed,automatic]  
zsh/stable,stable-security,now 5.8-6+deb11u1 amd64 [installed]  
root@berkay:~#
```

Searching for vlc



```
berkay@berkay: ~  
root@berkay:~# apt search vlc  
Sorting... Done  
Full Text Search... Done  
anacrolix-dms/stable 1.1.0-1 amd64  
  Go UPnP DLNA Digital Media Server with basic video transcoding  
  
cubemap/stable 1.4.3-2 amd64  
  scalable video reflector, designed to be used with VLC  
  
dvblast/stable 3.4-1 amd64  
  Simple and powerful dvb-streaming application  
  
forensics-extra-gui/stable 2.29 all  
  Forensics Environment - extra GUI components (metapackage)  
  
fp-units-multimedia/stable 3.2.0+dfsg-12 amd64  
  Free Pascal - multimedia units dependency package  
  
fp-units-multimedia-3.2.0/stable 3.2.0+dfsg-12 amd64  
  Free Pascal - multimedia units  
  
freetuxtv/stable 0.6.8-dfsg1-1+b2 amd64  
  Internet television and radio player  
  
gem-plugin-vlc/stable 1:0.94-3 amd64  
  Graphics Environment for Multimedia - VLC support  
  
getstream/stable 20100616-2 amd64  
  DVB streaming application
```

```
Activities Terminal Apr 11 13:45
berkay@berkay: ~
smtube/stable 18.3.0-1+b1 amd64
  YouTube videos browser

streamlink/stable 2.0.0-1 all
  CLI for extracting video streams from various websites to a video player

syncplay/stable 1.6.7+repack1-5 all
  Synchronize playback of various video players via internet

ustreamer/stable 3.16-1 amd64
  Lightweight and fast MJPG-HTTP streamer

vlc/stable 3.0.16-1 amd64
  multimedia player and streamer

vlc-bin/stable 3.0.16-1 amd64
  binaries from VLC

vlc-data/stable 3.0.16-1 all
  common data for VLC

vlc-l10n/stable 3.0.16-1 all
  translations for VLC

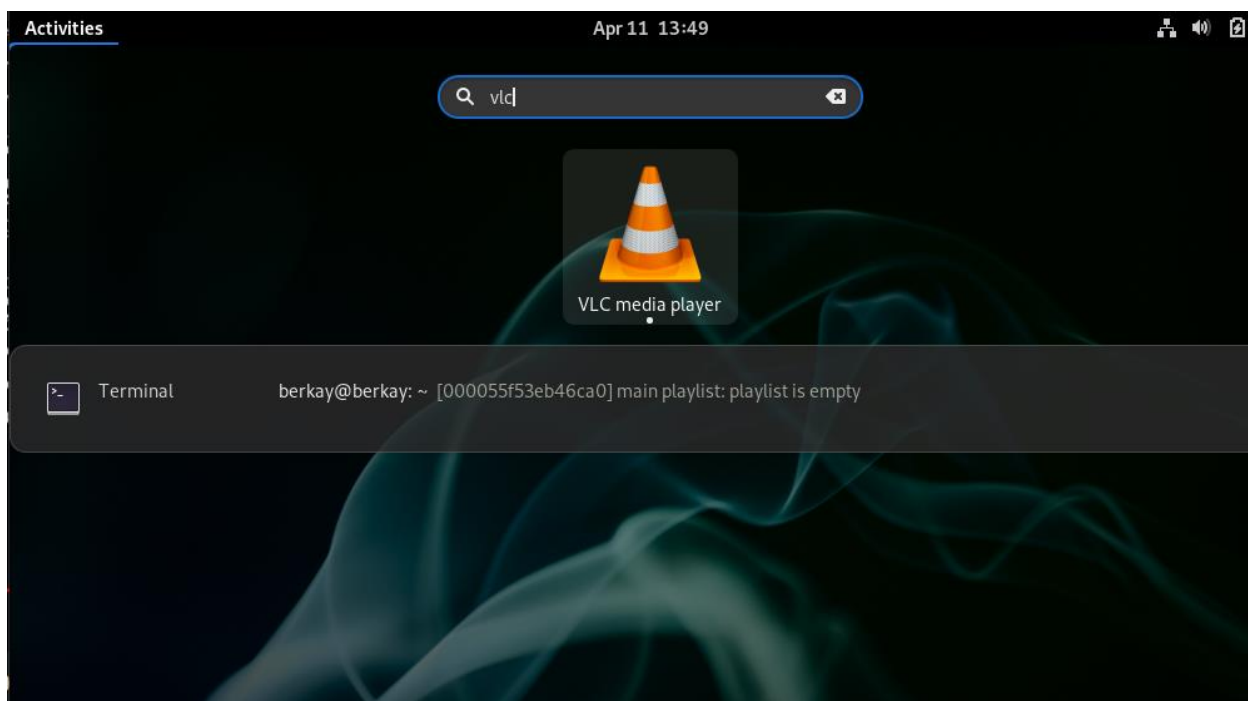
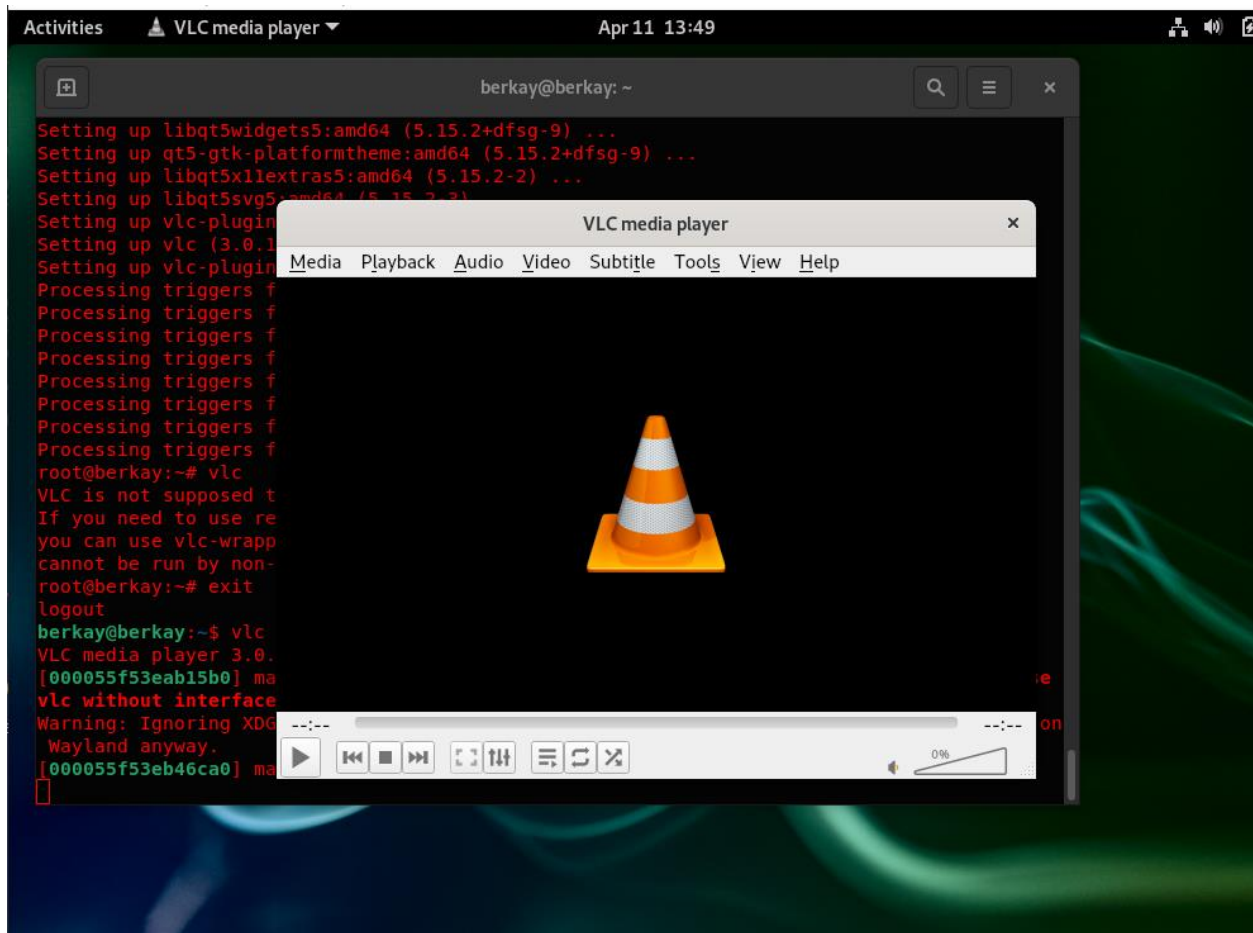
vlc-plugin-access-extra/stable 3.0.16-1 amd64
  multimedia player and streamer (extra access plugins)

vlc-plugin-base/stable 3.0.16-1 amd64
  multimedia player and streamer (base plugins)
```

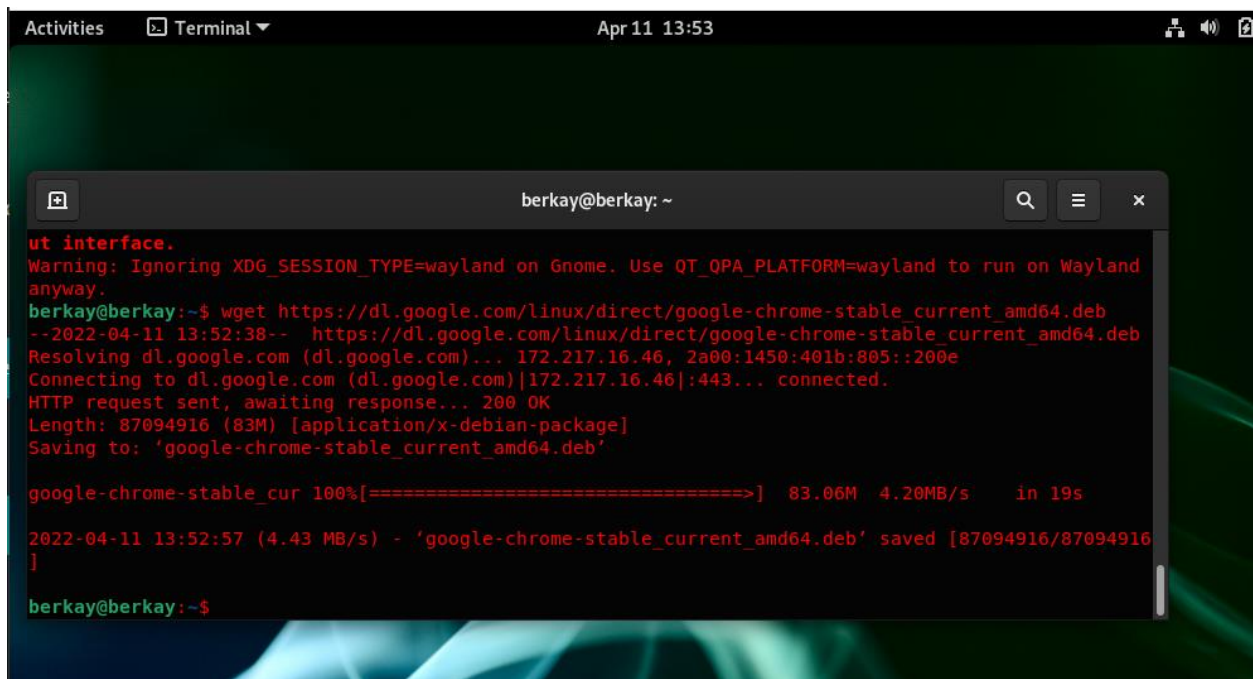
Installation of vlc:

```
Activities Terminal Apr 11 13:47
berkay@berkay: ~
root@berkay:~# apt-get install vlc
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fonts-freefont-ttf libaribb24-0 libcdcb2 libdouble-conversion3 libdvbpsi10 libebml5
  libexml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0 libplacebo72
  libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5
  libqt5svg5 libqt5widgets5 libqt5xmlextras5 libresid-builder0c2a libSDL-image1.2
  libSDL1.2debian libsidplay2 libspatialaudio0 libupnp13 libva-wayland2 libvlc-bin
  libvlc5 libvlccore9 libvncclient1 libxcb-composite0 libxcb-xinerama0 libxcb-xinput0
  qt5-gtk-platformtheme qttranslations5-l10n vlc vlc-bin vlc-data vlc-l10n
  vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify vlc-plugin-qt
  vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output vlc-plugin-video-splitter
  vlc-plugin-visualization
Suggested packages:
  qt5-image-formats-plugins qtwayland5 vlc-plugin-fluidsynth vlc-plugin-jack
  vlc-plugin-svg libdvdcss2
The following NEW packages will be installed:
  fonts-freefont-ttf libaribb24-0 libcdcb2 libdouble-conversion3 libdvbpsi10 libebml5
  libexml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0 libplacebo72
  libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5
  libqt5svg5 libqt5widgets5 libqt5xmlextras5 libresid-builder0c2a libSDL-image1.2
  libSDL1.2debian libsidplay2 libspatialaudio0 libupnp13 libva-wayland2 libvlc-bin
  libvlc5 libvlccore9 libvncclient1 libxcb-composite0 libxcb-xinerama0 libxcb-xinput0
  qt5-gtk-platformtheme qttranslations5-l10n vlc vlc-bin vlc-data vlc-l10n
  vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify vlc-plugin-qt
  vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output vlc-plugin-video-splitter
  vlc-plugin-visualization
0 upgraded, 51 newly installed, 0 to remove and 0 not upgraded.
```


Using only vlc command running the VLC media player



Downloading Google Chrome using wget command:



A terminal window titled 'berkay@berkay: ~' showing the execution of the 'wget' command to download Google Chrome. The terminal output includes a warning about XDG_SESSION_TYPE, the command execution, connection details, and the successful download of the file 'google-chrome-stable_current_amd64.deb'.

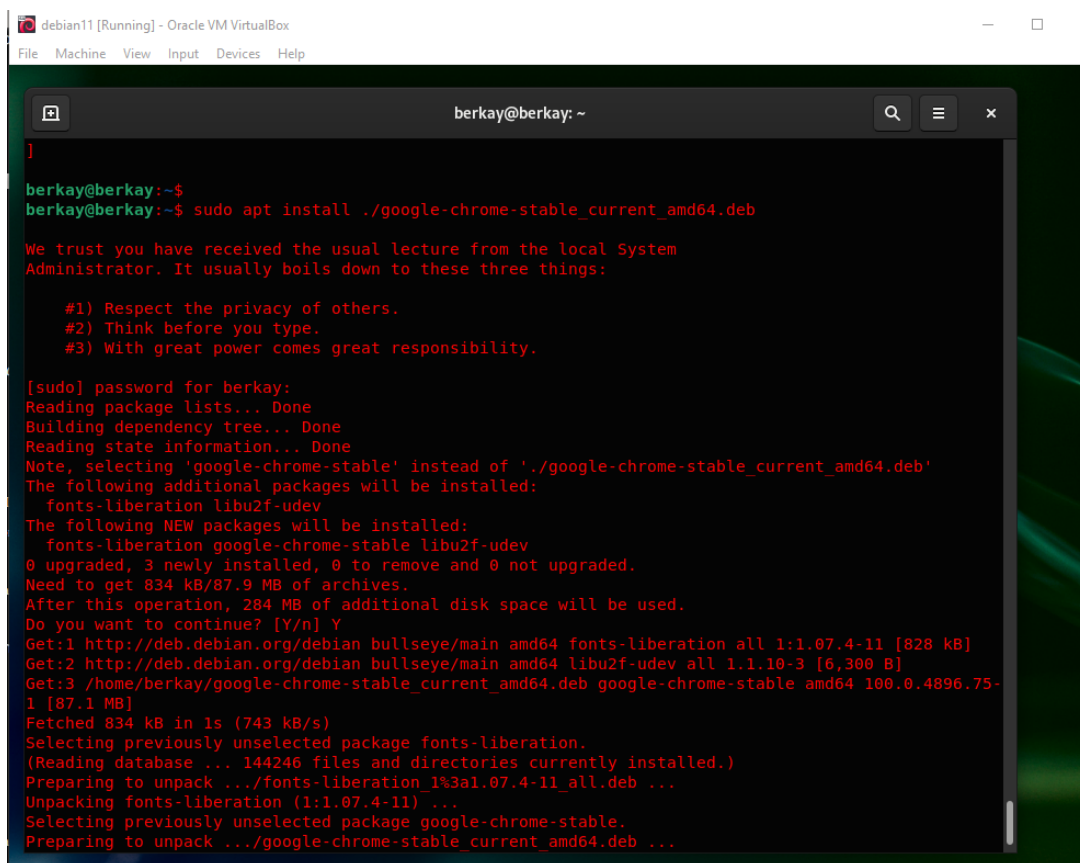
```
ut interface.
Warning: Ignoring XDG_SESSION_TYPE=wayland on Gnome. Use QT_OPA_PLATFORM=wayland to run on Wayland
anyway.
berkay@berkay:~$ wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
--2022-04-11 13:52:38-- https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
Resolving dl.google.com (dl.google.com)... 172.217.16.46, 2a00:1450:401b:805::200e
Connecting to dl.google.com (dl.google.com)|172.217.16.46|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 87094916 (83M) [application/x-debian-package]
Saving to: 'google-chrome-stable_current_amd64.deb'

google-chrome-stable_cur 100%[=====] 83.06M 4.20MB/s in 19s

2022-04-11 13:52:57 (4.43 MB/s) - 'google-chrome-stable_current_amd64.deb' saved [87094916/87094916]

berkay@berkay:~$
```

In order to install Chrome from the downloaded deb file:



A terminal window titled 'berkay@berkay: ~' showing the execution of 'sudo apt install ./google-chrome-stable_current_amd64.deb'. The output displays the system's response to the installation request, including package lists, dependency tree, and the successful installation of 'google-chrome-stable' and 'fonts-liberation'.

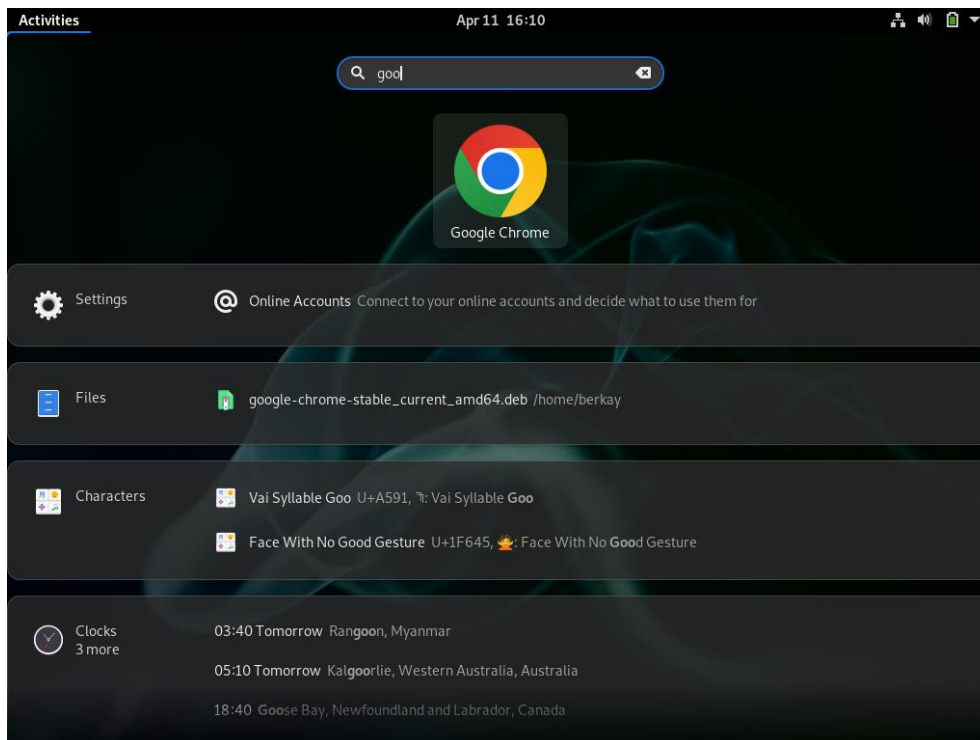
```
]

berkay@berkay:~$
berkay@berkay:~$ sudo apt install ./google-chrome-stable_current_amd64.deb

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

[sudo] password for berkay:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'google-chrome-stable' instead of './google-chrome-stable_current_amd64.deb'
The following additional packages will be installed:
  fonts-liberation libu2f-udev
The following NEW packages will be installed:
  fonts-liberation google-chrome-stable libu2f-udev
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 834 kB/87.9 MB of archives.
After this operation, 284 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://deb.debian.org/debian bullseye/main amd64 fonts-liberation all 1:1.07.4-11 [828 kB]
Get:2 http://deb.debian.org/debian bullseye/main amd64 libu2f-udev all 1.1.10-3 [6,300 B]
Get:3 /home/berkay/google-chrome-stable_current_amd64.deb google-chrome-stable amd64 100.0.4896.75-1 [87.1 MB]
Fetched 834 kB in 1s (743 kB/s)
Selecting previously unselected package fonts-liberation.
(Reading database ... 144246 files and directories currently installed.)
Preparing to unpack .../fonts-liberation_1%3a1.07.4-11_all.deb ...
Unpacking fonts-liberation (1:1.07.4-11) ...
Selecting previously unselected package google-chrome-stable.
Preparing to unpack .../google-chrome-stable_current_amd64.deb ...
```



Adding unofficial repository to sources list

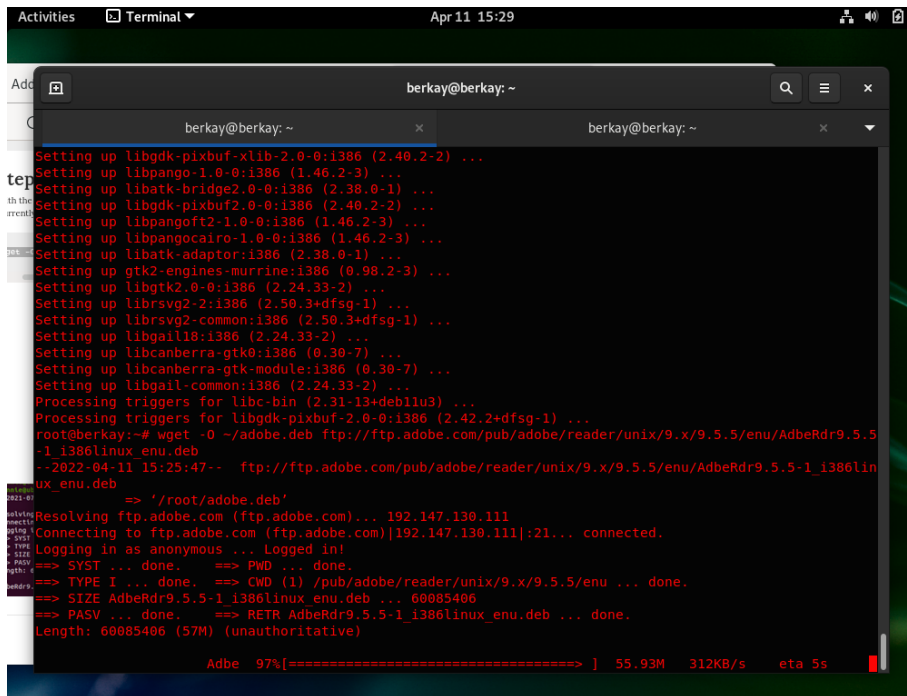
```

berkay@berkay: ~
GNU nano 5.4 /etc/apt/sources.list
# deb cdrom:[Debian GNU/Linux 11.2.0 _Bullseye_ - Official amd64 NETINST 20211218-11:12]/ bullseye main
# deb cdrom:[Debian GNU/Linux 11.2.0 _Bullseye_ - Official amd64 NETINST 20211218-11:12]/ bullseye main
# deb http://deb.debian.org/debian bullseye main
# deb-src http://deb.debian.org/debian bullseye main
# deb http://security.debian.org/debian-security bullseye-security main
# deb-src http://security.debian.org/debian-security bullseye-security main
# deb http://deb.debian.org/debian bullseye-updates main
# deb-src http://deb.debian.org/debian bullseye-updates main
# deb http://deb.debian.org/debian bullseye-backports main
# deb-src http://deb.debian.org/debian bullseye-backports main
# EOF
# bullseye-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#updates_and_backports
# A network mirror was not selected during install. The following entries
# are provided as examples, but you should amend them as appropriate
# for your mirror of choice.
# deb http://deb.debian.org/debian/ bullseye-updates main contrib
# deb-src http://deb.debian.org/debian/ bullseye-updates main contrib

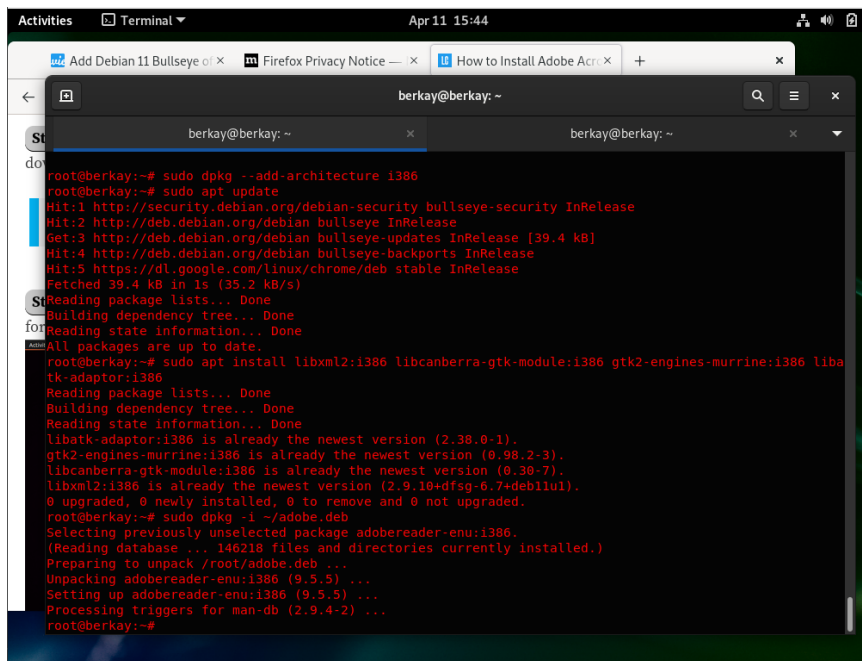
```


Installation of adobereader -> <https://techviewleo.com/add-debian-11-bullseye-official-repositories-to-sources-list/>

```
wget -O ~/adobe.deb  
ftp://ftp.adobe.com/pub/adobe/reader/unix/9.x/9.5.5/enu/AdbeRdr9.5.5-1_i386linux_enu.deb
```

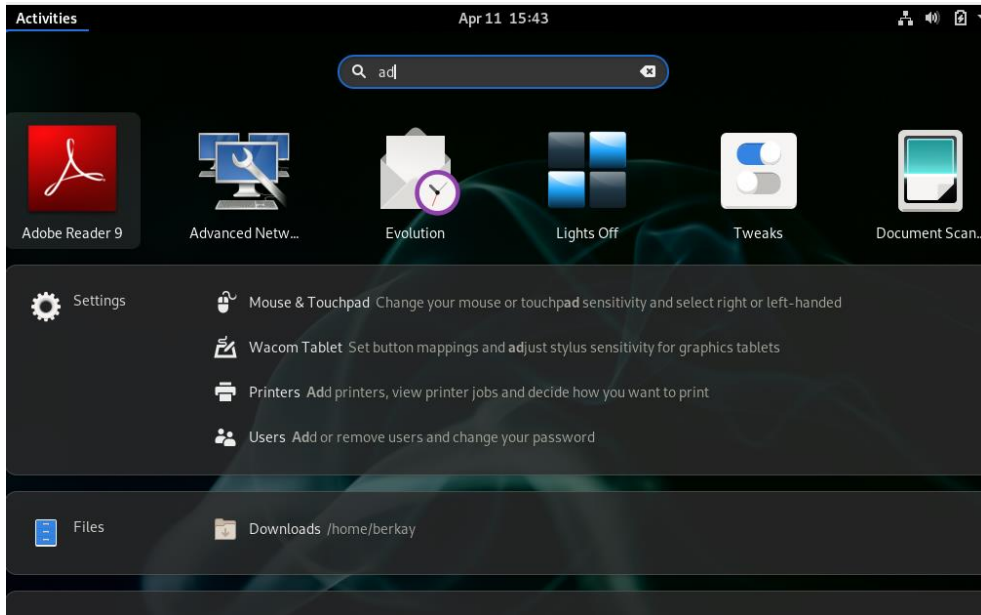


```
berkay@berkay: ~  
Setting up libgdk-pixbuf-xlib-2.0-0:i386 (2.40.2-2) ...  
Setting up libpango-1.0-0:i386 (1.46.2-3) ...  
Setting up libatk-bridge2.0-0:i386 (2.38.0-1) ...  
Setting up libgdk-pixbuf2.0-0:i386 (2.40.2-2) ...  
Setting up libpangoft2-1.0-0:i386 (1.46.2-3) ...  
Setting up libpangocairo-1.0-0:i386 (1.46.2-3) ...  
Setting up libatk-adaptor:i386 (2.38.0-1) ...  
Setting up gtk2-engines-murrine:i386 (0.98.2-3) ...  
Setting up libgtk2.0-0:i386 (2.24.33-2) ...  
Setting up librsvg2-2:i386 (2.50.3+dfsg-1) ...  
Setting up librsvg-common:i386 (2.50.3+dfsg-1) ...  
Setting up libgail:i386 (2.24.33-2) ...  
Setting up libcanberra-gtk0:i386 (0.30-7) ...  
Setting up libcanberra-gtk-module:i386 (0.30-7) ...  
Setting up libgail-common:i386 (2.24.33-2) ...  
Processing triggers for libc-bin (2.31-13+deb11u3) ...  
Processing triggers for libgdk-pixbuf-2.0-0:i386 (2.42.2+dfsg-1) ...  
berkay@berkay:~# wget -O ~/adobe.deb ftp://ftp.adobe.com/pub/adobe/reader/unix/9.x/9.5.5/enu/AdbeRdr9.5.5-1_i386linux_enu.deb  
--2022-04-11 15:25:47-- ftp://ftp.adobe.com/pub/adobe/reader/unix/9.x/9.5.5/enu/AdbeRdr9.5.5-1_i386linux_enu.deb  
=> '/root/adobe.deb'  
Resolving ftp.adobe.com (ftp.adobe.com)... 192.147.130.111  
Connecting to ftp.adobe.com (ftp.adobe.com)|192.147.130.111|:21... connected.  
Logging in as anonymous ... Logged in!  
=> SYST ... done. ==> PWD ... done.  
=> TYPE I ... done. ==> CWD (1) /pub/adobe/reader/unix/9.x/9.5.5/enu ... done.  
=> SIZE AdbeRdr9.5.5-1_i386linux_enu.deb ... 60085406  
=> PASV ... done. ==> RETR AdbeRdr9.5.5-1_i386linux_enu.deb ... done.  
Length: 60085406 (57M) (unauthoritative)  
Adbe 97%[=====] 55.93M 312KB/s eta 5s
```

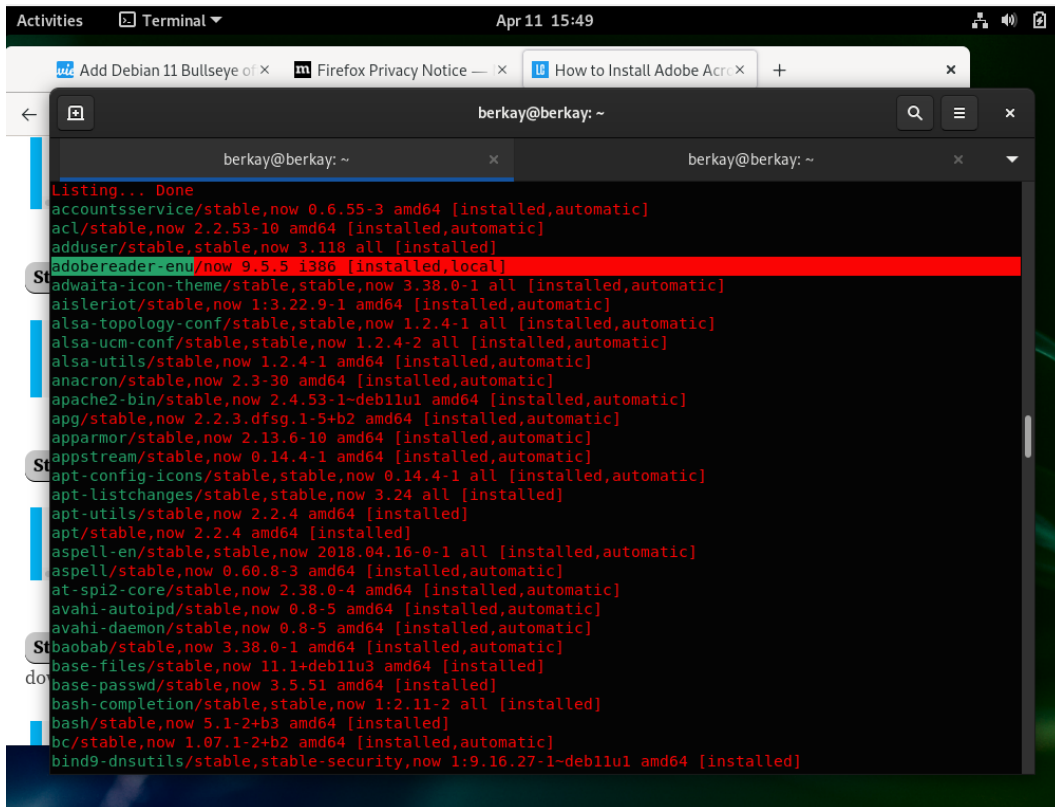


```
berkay@berkay: ~  
root@berkay:~# sudo dpkg --add-architecture i386  
root@berkay:~# sudo apt update  
Hit:1 http://security.debian.org/debian-security bullseye-security InRelease  
Hit:2 http://deb.debian.org/debian bullseye InRelease  
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]  
Hit:4 http://deb.debian.org/debian bullseye-backports InRelease  
Hit:5 https://dl.google.com/linux/chrome/deb stable InRelease  
Fetched 39.4 kB in 1s (35.2 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
All packages are up to date.  
root@berkay:~# sudo apt install libxml2:i386 libcanberra-gtk-module:i386 gtk2-engines-murrine:i386 libatk-adaptor:i386  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
libatk-adaptor:i386 is already the newest version (2.38.0-1).  
gtk2-engines-murrine:i386 is already the newest version (0.98.2-3).  
libcanberra-gtk-module:i386 is already the newest version (0.30-7).  
libxml2:i386 is already the newest version (2.9.10+dfsg-6.7+deb11u1).  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
root@berkay:~# sudo dpkg -i ~/adobe.deb  
Selecting previously unselected package adobereader-enu:i386.  
(Reading database ... 146218 files and directories currently installed.)  
Preparing to unpack ~/adobe.deb ...  
Unpacking adobereader-enu:i386 (9.5.5) ...  
Setting up adobereader-enu:i386 (9.5.5) ...  
Processing triggers for man-db (2.9.4-2) ...  
root@berkay:~#
```

Installed adobe



Representation of installed Google Chrome and Adobe Reader





Remove google-chrome-stable

A screenshot of a terminal window titled 'berkay@berkay: ~'. The terminal shows the execution of the command 'sudo apt-get remove google-chrome-stable'. The output indicates that the package is no longer required and will be removed. The terminal also shows the removal of other packages like gir1.2-totem, libu2f-udev, and mythes-en-us. The terminal window has a dark background and a light-colored text. The terminal output is as follows:

```
berkay@berkay: ~  
E: Unsupported file ./google-chrome-stable current amd64.deb given on commandline  
root@berkay:~# sudo apt-get remove google-chrome-stable  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  gir1.2-totem-1.0 hyphen-en-us javascript-common libreoffice-help-common libreoffice-help-en-us  
  libtotem0 libu2f-udev mythes-en-us node-normalize.css totem-common  
Use 'sudo apt autoremove' to remove them.  
The following packages will be REMOVED:  
  google-chrome-stable  
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.  
After this operation, 282 MB disk space will be freed.  
Do you want to continue? [Y/n] Y  
(Reading database ... 146517 files and directories currently installed.)  
Removing google-chrome-stable (100.0.4896.88-1) ...  
update-alternatives: using /usr/bin/firefox-esr to provide /usr/bin/x-www-browser (x-www-browser) in a  
uto mode  
update-alternatives: using /usr/bin/firefox-esr to provide /usr/bin/gnome-www-browser (gnome-www-brows  
er) in auto mode  
Processing triggers for gnome-menus (3.36.0-1) ...  
Processing triggers for man-db (2.9.4-2) ...  
Processing triggers for mailcap (3.69) ...  
Processing triggers for desktop-file-utils (0.26-1) ...  
root@berkay:~# S
```

Removing vlc:

```
Activities Terminal Apr 11 17:03
```

```
berkey@berkey: ~  
berkey@berkey: ~  
root@berkey:~# sudo apt-get purge vlc  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  gir1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcdcb2 libdouble-conversion3  
  libdvbpsi10 libebml5 libixml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0  
  libplacebo72 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5  
  libqt5svg5 libqt5widgets5 libqt5xmlextras5 libreoffice-help-common libreoffice-help-en-us  
  libresid-builder0c2a libsidl-image1.2 libsidl1.2debian libsidplay2 libspatialaudio0 libtotem0  
  libu2f-udev libupnp13 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libvncclient1  
  libxcb-composite0 libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css  
  qt5-gtk-platformtheme qttranslations5-l10n totem-common vlc-bin vlc-data vlc-l10n  
  vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify vlc-plugin-qt vlc-plugin-samba  
  vlc-plugin-skins2 vlc-plugin-video-output vlc-plugin-video-splitter vlc-plugin-visualization  
Use 'sudo apt autoremove' to remove them.  
The following packages will be REMOVED:  
  vlc*  
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.  
After this operation, 236 kB disk space will be freed.  
Do you want to continue? [Y/n] Y  
(Reading database ... 146404 files and directories currently installed.)  
Removing vlc (3.0.16-1) ...  
Processing triggers for gnome-menus (3.36.0-1) ...  
Processing triggers for mailcap (3.69) ...  
Processing triggers for desktop-file-utils (0.26-1) ...  
root@berkey:~#
```


Remove zsh

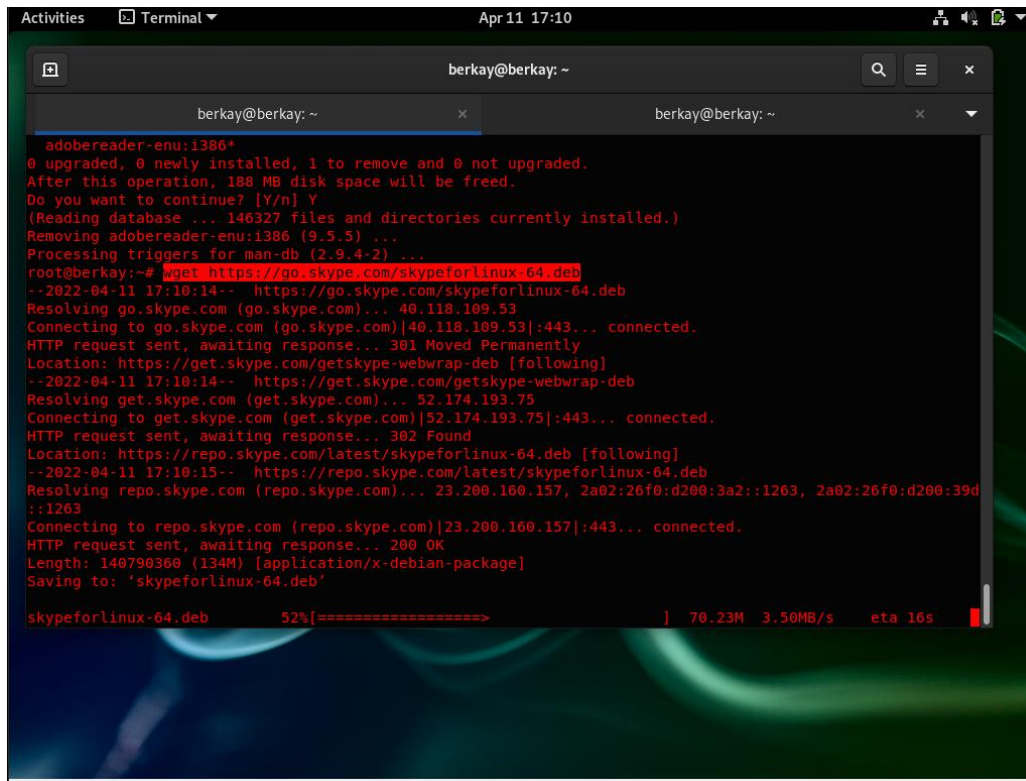
```
Activities Terminal Apr 11 17:05
berkay@berkay: ~
berkay@berkay: ~
root@berkay:~# sudo apt-get --purge remove zsh
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
girl1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcdt2 libdouble-conversion3
libdvbpsi10 libebml5 libxml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0
libplacebo72 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5
libqt5svg5 libqt5widgets5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5
libresid-builder0c2a libSDL-image1.2 libSDL1.2debian libsidplay2 libspatialaudio0 libtotem0
libu2f-udev libupnp13 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css qt5-gtk-platformtheme
qttranslations5-l10n totem-common vlc-bin vlc-data vlc-l10n vlc-plugin-access-extra vlc-plugin-base
vlc-plugin-notify vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
zsh*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 2,526 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 146385 files and directories currently installed.)
Removing zsh (5.8-6+deb11u1) ...
Processing triggers for man-db (2.9.4-2) ...
(Reading database ... 146327 files and directories currently installed.)
Purging configuration files for zsh (5.8-6+deb11u1) ...
root@berkay:~#
```

Adobe reader:

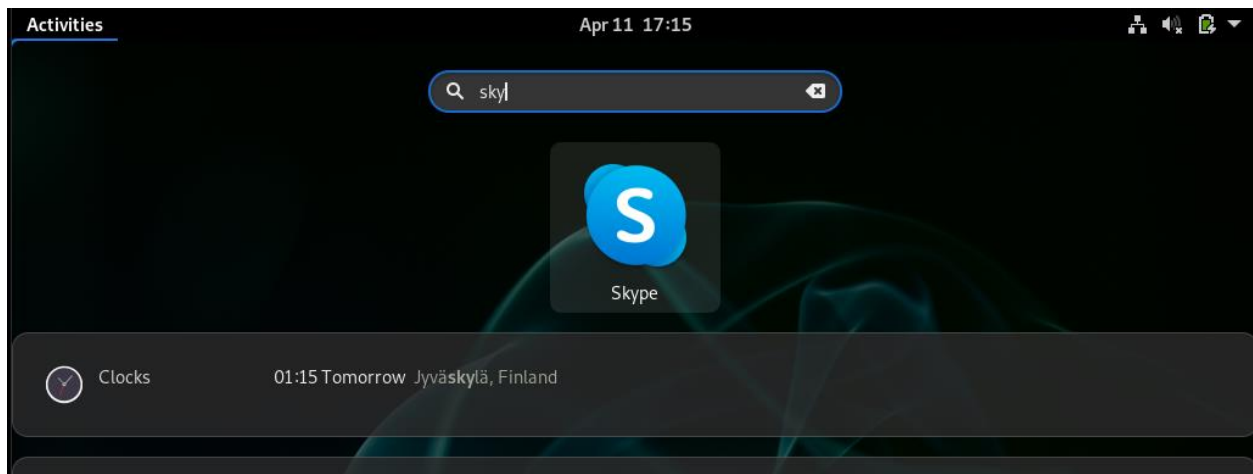
```
Activities Terminal Apr 11 17:07
berkay@berkay: ~
berkay@berkay: ~
Reading state information... Done
E: Unable to locate package adobe-reader
root@berkay:~# sudo apt-get purge adobe-reader-enu
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
girl1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcdt2 libdouble-conversion3
libdvbpsi10 libebml5 libxml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0
libplacebo72 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5
libqt5svg5 libqt5widgets5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5 libqt5xml5
libresid-builder0c2a libSDL-image1.2 libSDL1.2debian libsidplay2 libspatialaudio0 libtotem0
libu2f-udev libupnp13 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css qt5-gtk-platformtheme
qttranslations5-l10n totem-common vlc-bin vlc-data vlc-l10n vlc-plugin-access-extra vlc-plugin-base
vlc-plugin-notify vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
adobe-reader-enu:i386*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 188 MB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 146327 files and directories currently installed.)
Removing adobe-reader-enu:i386 (9.5.5) ...
Processing triggers for man-db (2.9.4-2) ...
root@berkay:~#
```


Task2

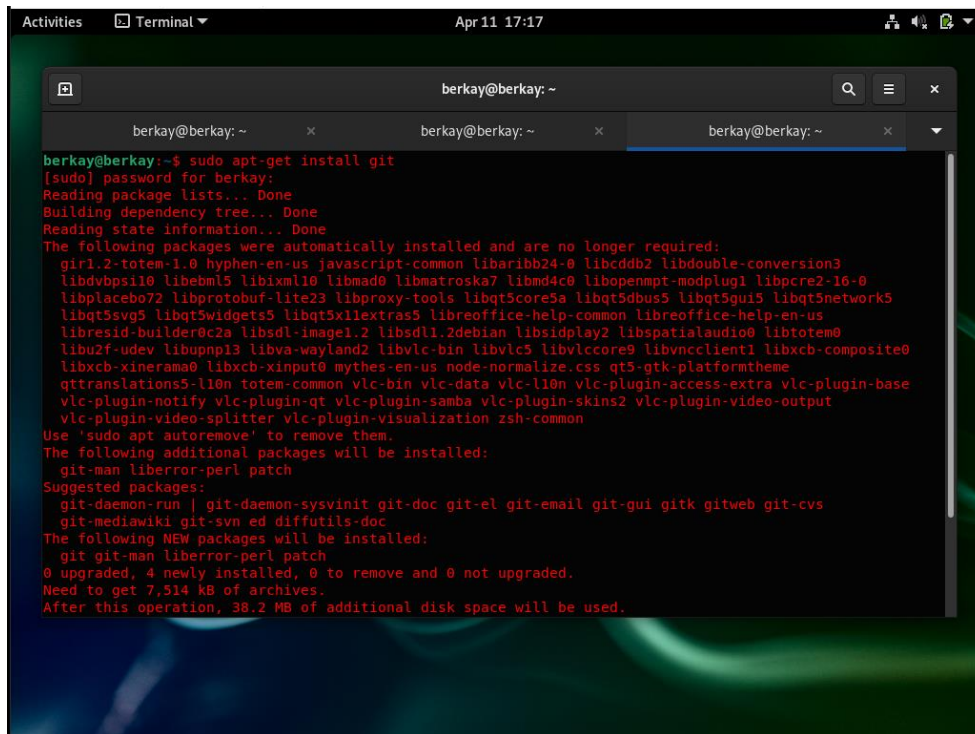
Installing skype from a package:



```
berkay@berkay: ~  
adobereader-enu:i386*  
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.  
After this operation, 188 MB disk space will be freed.  
Do you want to continue? [Y/n] Y  
(Reading database ... 146327 files and directories currently installed.)  
Removing adobereader-enu:i386 (9.5.5) ...  
Processing triggers for man-db (2.9.4-2) ...  
root@berkay:~# wget https://go.skype.com/skypeforlinux-64.deb  
--2022-04-11 17:10:14-- https://go.skype.com/skypeforlinux-64.deb  
Resolving go.skype.com (go.skype.com)... 40.118.109.53  
Connecting to go.skype.com (go.skype.com)[40.118.109.53]:443... connected.  
HTTP request sent, awaiting response... 301 Moved Permanently  
Location: https://get.skype.com/getskype-webwrap-deb [following]  
--2022-04-11 17:10:14-- https://get.skype.com/getskype-webwrap-deb  
Resolving get.skype.com (get.skype.com)... 52.174.193.75  
Connecting to get.skype.com (get.skype.com)[52.174.193.75]:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: https://repo.skype.com/latest/skypeforlinux-64.deb [following]  
--2022-04-11 17:10:15-- https://repo.skype.com/latest/skypeforlinux-64.deb  
Resolving repo.skype.com (repo.skype.com)... 23.200.160.157, 2a02:26f0:d200:3a2::1263, 2a02:26f0:d200:39d::1263  
Connecting to repo.skype.com (repo.skype.com)[23.200.160.157]:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 140790360 (134M) [application/x-debian-package]  
Saving to: 'skypeforlinux-64.deb'  
  
skypeforlinux-64.deb 52%[=====>] 70.23M 3.50MB/s eta 16s
```

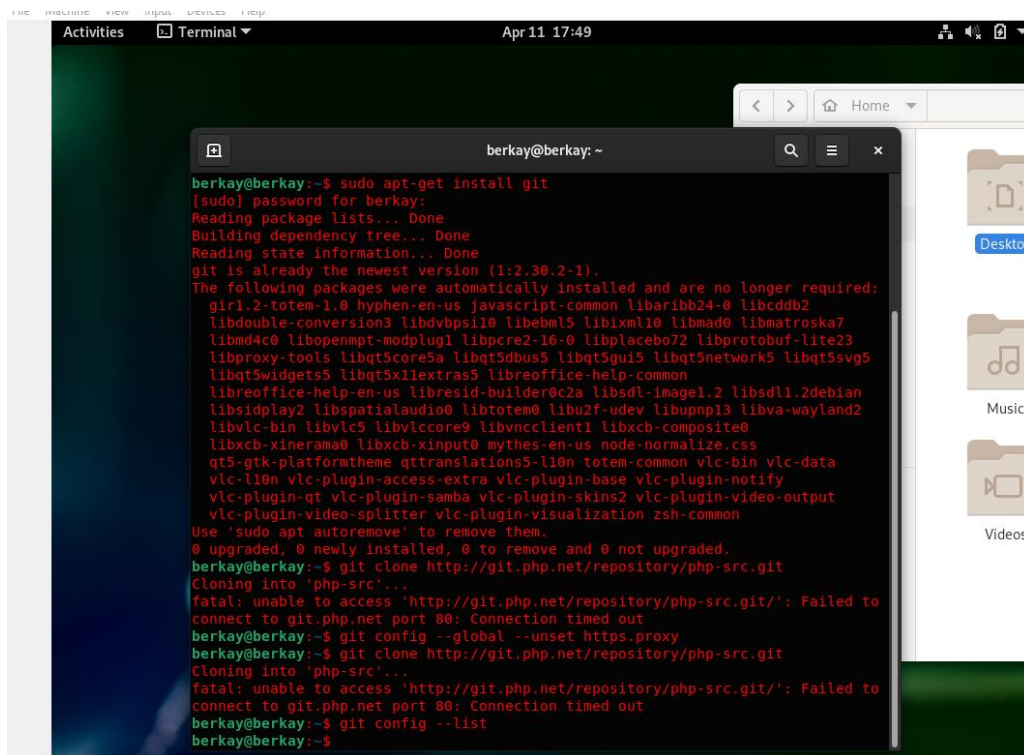


Task2.1) = Installing PHP via git



```
berkay@berkay:~$ sudo apt-get install git
[sudo] password for berkay:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  gir1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcdcb2 libdouble-conversion3
  libdvbpsi10 libebml5 libixml10 libmad0 libmatroska7 libmd4c0 libopenmpt-modplug1 libpcre2-16-0
  libplacebo72 libprotobuf-lite23 libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5
  libqt5svg5 libqt5widgets5 libqt5xmlextras5 libreoffice-help-common libreoffice-help-en-us
  libresid-builder0c2a libstdl-image1.2 libstdl1.2debian libstdplay2 libspatialaudio0 libtotem0
  libu2f-udev libupnp13 libva-wayland2 libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
  libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css qt5-gtk-platformtheme
  qttranslations5-l10n totem-common vlc-bin vlc-data vlc-l10n vlc-plugin-access-extra vlc-plugin-base
  vlc-plugin-notify vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
  vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  git-man liberror-perl patch
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs
  git-mediawiki git-svn ed diffutils-doc
The following NEW packages will be installed:
  git git-man liberror-perl patch
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 7,514 kB of archives.
After this operation, 38.2 MB of additional disk space will be used.
```

Task2.2)



```
berkay@berkay:~$ sudo apt-get install git
[sudo] password for berkay:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.30.2-1).
The following packages were automatically installed and are no longer required:
  gir1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcdcb2
  libdouble-conversion3 libdvbpsi10 libebml5 libixml10 libmad0 libmatroska7
  libmd4c0 libopenmpt-modplug1 libpcre2-16-0 libplacebo72 libprotobuf-lite23
  libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5
  libqt5widgets5 libqt5xmlextras5 libreoffice-help-common
  libreoffice-help-en-us libresid-builder0c2a libstdl-image1.2 libstdl1.2debian
  libstdplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
  libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
  libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css
  qt5-gtk-platformtheme qttranslations5-l10n totem-common vlc-bin vlc-data
  vlc-l10n vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify
  vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
  vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
berkay@berkay:~$ git clone http://git.php.net/repository/php-src.git
Cloning into 'php-src'...
fatal: unable to access 'http://git.php.net/repository/php-src.git/': Failed to
connect to git.php.net port 80: Connection timed out
berkay@berkay:~$ git config --global --unset https.proxy
berkay@berkay:~$ git clone http://git.php.net/repository/php-src.git
Cloning into 'php-src'...
fatal: unable to access 'http://git.php.net/repository/php-src.git/': Failed to
connect to git.php.net port 80: Connection timed out
berkay@berkay:~$ git config --list
berkay@berkay:~$
```

```
file machine view input devices help
Activities Terminal Apr 11 17:56

berkay@berkay: ~
fatal: unable to access 'http://git.php.net/repository/php-src.git/': Failed to
connect to git.php.net port 80: Connection timed out
berkay@berkay:~$ sudo apt install php7.4
[sudo] password for berkay:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
gir1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcddeb2
libdouble-conversion3 libdvbpsi10 libebml5 libxml10 libmad0 libmatroska7
libmd4c0 libopenmpt-modplug1 libpcre2-16-0 libplacebo72 libprotobuf-lite23
libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5
libqt5widgets5 libqt5xmlextras5 libreoffice-help-common
libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian
libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css
qt5-gtk-platformtheme qttranslations5-l10n totem-common vlc-bin vlc-data
vlc-l10n vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify
vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
apache2 apache2-data apache2-utils libapache2-mod-php7.4 php-common
php7.4-cli php7.4-common php7.4-json php7.4-opcache php7.4-readline
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom php-pear
The following NEW packages will be installed:
  apache2 apache2-data apache2-utils libapache2-mod-php7.4 php-common php7.4
  php7.4-cli php7.4-common php7.4-json php7.4-opcache php7.4-readline
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
Need to get 4,812 kB of archives.
After this operation, 20.0 MB of additional disk space will be used.
```

Removing skype:

```
Activities Terminal Apr 11 17:59

berkay@berkay: ~
Reading state information... Done
E: Unable to locate package skype
berkay@berkay:~$ sudo apt-get --purge remove skypeforlinux
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
gir1.2-totem-1.0 hyphen-en-us javascript-common libaribb24-0 libcddeb2
libdouble-conversion3 libdvbpsi10 libebml5 libxml10 libmad0 libmatroska7
libmd4c0 libopenmpt-modplug1 libpcre2-16-0 libplacebo72 libprotobuf-lite23
libproxy-tools libqt5core5a libqt5dbus5 libqt5gui5 libqt5network5 libqt5svg5
libqt5widgets5 libqt5xmlextras5 libreoffice-help-common
libreoffice-help-en-us libresid-builder0c2a libSDL-image1.2 libSDL1.2debian
libsidplay2 libspatialaudio0 libtotem0 libu2f-udev libupnp13 libva-wayland2
libvlc-bin libvlc5 libvlccore9 libvncclient1 libxcb-composite0
libxcb-xinerama0 libxcb-xinput0 mythes-en-us node-normalize.css
qt5-gtk-platformtheme qttranslations5-l10n totem-common vlc-bin vlc-data
vlc-l10n vlc-plugin-access-extra vlc-plugin-base vlc-plugin-notify
vlc-plugin-qt vlc-plugin-samba vlc-plugin-skins2 vlc-plugin-video-output
vlc-plugin-video-splitter vlc-plugin-visualization zsh-common
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  skypeforlinux*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 383 MB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 147766 files and directories currently installed.)
Removing skypeforlinux (0.82.0.403) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1) ...
Processing triggers for mailcap (3.69) ...
Processing triggers for desktop-file-utils (0.26-1) ...
berkay@berkay:~$
```

Task3

