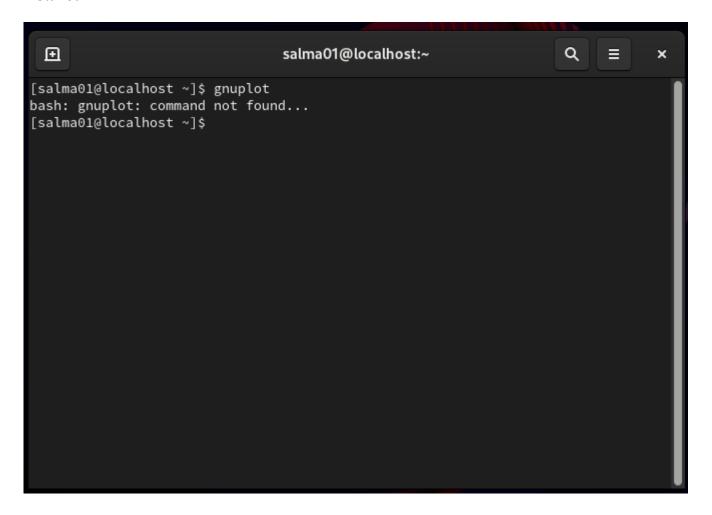
## Using yum

17. Attempt to run the command gnuplot. You should find that it is not installed.



#### 18. Search for the plotting packages.

```
Q
 ⊕.
                               salma01@localhost:~
                                                                       ×
You have new mail in /var/spool/mail/salma01
[salma01@localhost ~]$ yum search plotting
Not root, Subscription Management repositories not updated
Extra Packages for Enterprise Linux 9 - x86_64 352 kB/s |
                                                                     00:57
                                                           20 MB
Extra Packages for Enterprise Linux 9 openh264 2.4 kB/s | 2.5 kB
                                                                     00:01
Red Hat CodeReady Linux Builder for RHEL 9 x86_ 332 kB/s | 6.4 MB
                                                                     00:19
Red Hat Enterprise Linux 9 for x86_64 - AppStre 350 kB/s |
                                                                     01:21
Red Hat Enterprise Linux 9 for x86_64 - BaseOS 335 kB/s |
                                                           16 MB
                                                                     00:49
============= Name & Summary Matched: plotting ==================
kf5-kplotting.x86_64 : KDE Frameworks 5 Tier 1 addon for plotting
kf5-kplotting-devel.x86_64 : Development files for kf5-kplotting
================== Summary Matched: plotting ==================================
gnuplot.x86_64 : A program for plotting mathematical expressions and data
gnuplot-minimal.x86_64 : Minimal version of program for plotting mathematical
                       : expressions and data
ocaml-plplot.x86_64 : Functions for scientific plotting with OCaml
plplot-java.x86_64 : Functions for scientific plotting with Java
plplot-lua.x86_64 : Functions for scientific plotting with Lua
plplot-pyqt.x86_64 : Functions for scientific plotting with PyQt
plplot-qt.x86_64 : Functions for scientific plotting with Qt
plplot-tk.x86_64 : Functions for scientific plotting with Tk
plplot-wxGTK.x86_64 : Functions for scientific plotting with wxGTK
python3-matplotlib.x86_64 : Python 2D plotting library
rust-criterion-plot+default-devel.noarch : Criterion's plotting library
```

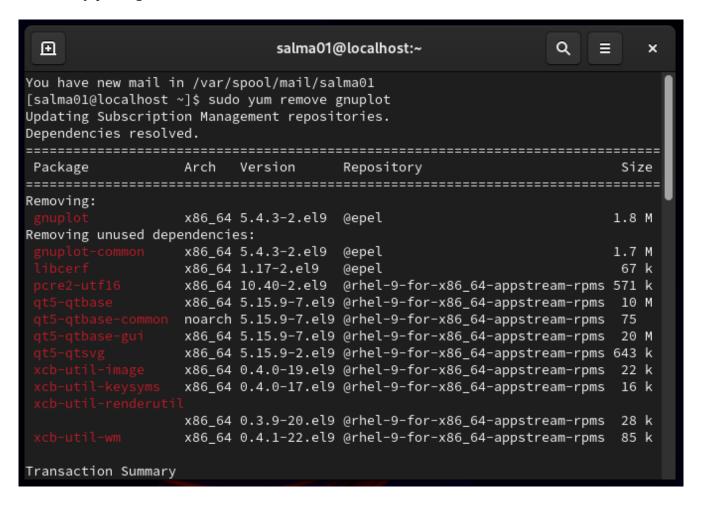
19. Find out more information about the gunuplot package.

```
\blacksquare
                               salma01@localhost:~
                                                                  Q
                                                                       ×
[salma01@localhost ~]$ yum info gnuplot
Not root, Subscription Management repositories not updated
Last metadata expiration check: 0:03:45 ago on Thu 14 Dec 2023 06:04:06 PM EET.
Installed Packages
Name
            : gnuplot
Version
           : 5.4.3
Release
           : 2.el9
Architecture : x86_64
Size
           : 1.8 M
Source
           : gnuplot-5.4.3-2.el9.src.rpm
Repository : @System
From repo
           : epel
Summary
            : A program for plotting mathematical expressions and data
URL
            : http://www.gnuplot.info/
            : gnuplot and MIT
License
Description : Gnuplot is a command-line driven, interactive function plotting
            : program especially suited for scientific data representation.
            : Gnuplot can be used to plot functions and data points in both two
             : and three dimensions and in many different formats.
             : Install gnuplot if you need a graphics package for scientific
             : data representation.
             : This package provides a Qt based terminal version of gnuplot.
```

## 20. Install the gnuplot package.

```
[salma01@localhost ~]$ sudo yum install gnuplot
[sudo] password for salma01:
Updating Subscription Management repositories.
Last metadata expiration check: 0:12:32 ago on Thu 14 Dec 2023 05:57:06 PM EET.
Package gnuplot-5.4.3-2.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[salma01@localhost ~]$
```

21. Attempt to remove the gnuplot package, but say no How many packages would be removed.

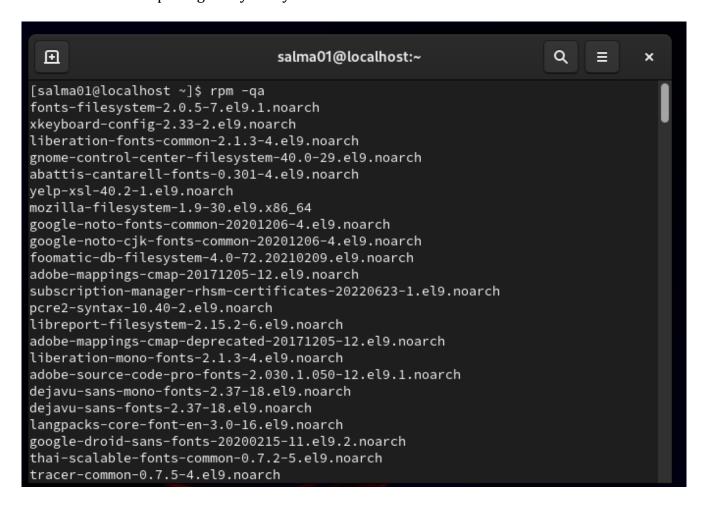


22. Attempt to remove the gunplot-common package but say no How many packages would be removed.

```
Q
  衄
                                salma01@localhost:~
                                                                               ×
                    x86_64 5.4.3-2.el9 @epel
                                                                           1.7 M
Removing dependent packages:
                    x86_64 5.4.3-2.el9 @epel
                                                                           1.8 M
Removing unused dependencies:
                    x86_64 1.17-2.el9
                                        @epel
                                                                            67 k
                    x86_64 10.40-2.el9 @rhel-9-for-x86_64-appstream-rpms 571 k
                    x86_64 5.15.9-7.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                            10 M
                    noarch 5.15.9-7.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                            75
                    x86_64 5.15.9-7.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                            20 M
                    x86_64 5.15.9-2.el9 @rhel-9-for-x86_64-appstream-rpms 643 k
                    x86_64 0.4.0-19.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                            22 k
                    x86_64 0.4.0-17.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                           16 k
                    x86_64 0.3.9-20.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                           28 k
                    x86_64 0.4.1-22.el9 @rhel-9-for-x86_64-appstream-rpms
                                                                            85 k
Transaction Summary
Remove 12 Packages
Freed space: 35 M
Is this ok [y/N]: n
Operation aborted.
[salma01@localhost ~]$
```

#### Using rpm

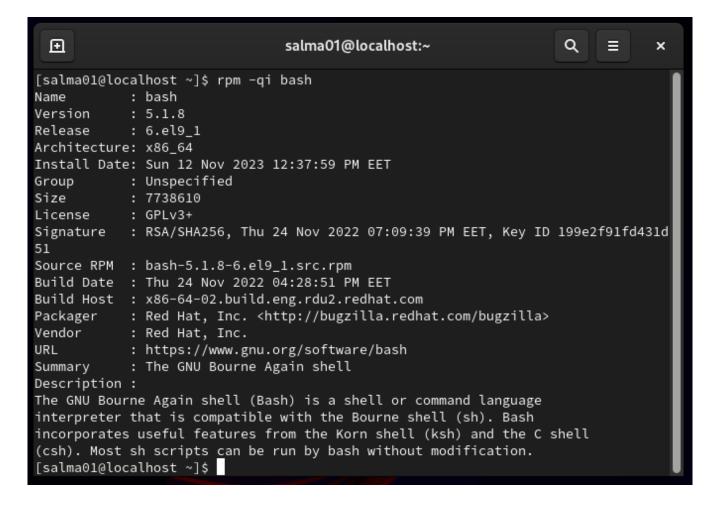
23. List all installed packages in your system.



## 24. View the files in the initscripts package.

```
Q
 ⅎ
                               salma01@localhost:~
                                                                               ×
                                                                        [salma01@localhost ~]$ rpm -ql initscripts
/etc/init.d
/etc/rc.d
/etc/rc.d/init.d
/etc/rc.d/init.d/functions
/etc/rc.d/rc0.d
/etc/rc.d/rc1.d
/etc/rc.d/rc2.d
/etc/rc.d/rc3.d
/etc/rc.d/rc4.d
/etc/rc.d/rc5.d
/etc/rc.d/rc6.d
/etc/rc0.d
/etc/rc1.d
/etc/rc2.d
/etc/rc3.d
/etc/rc4.d
/etc/rc5.d
/etc/rc6.d
/etc/sysconfig/console
/etc/sysconfig/modules
/usr/bin/usleep
/usr/lib/.build-id
/usr/lib/.build-id/2d
```

#### 25. Get general information about bash rpm.



# 26. Have the files from the pam package changed since it was installed.

```
•
                               salma01@localhost:~
                                                                   Q ≡
                                                                               ×
[salma01@localhost ~]$ rpm -v pam
RPM version 4.16.1.3
Copyright (C) 1998-2002 - Red Hat, Inc.
This program may be freely redistributed under the terms of the GNU GPL
Usage: rpm [OPTION...]
Query/Verify package selection options:
  -a, --all
                                     query/verify all packages
  -f, --file
                                     query/verify package(s) owning installed
                                     file
                                     query/verify package(s) owning path,
      --path
                                     installed or not
                                     query/verify package(s) in group
  -g, --group
                                     query/verify a package file
  -p, --package
                                     query/verify package(s) with package
      --pkgid
                                     identifier
      --hdrid
                                     query/verify package(s) with header
                                     identifier
      --triggeredby
                                     query the package(s) triggered by the
                                     package
      --whatconflicts
                                     query/verify the package(s) which require
                                     a dependency
      --whatrequires
                                     query/verify the package(s) which require
```

### 27. Which installed packages have gnome in their names?

```
ⅎ
                                salma01@localhost:~
                                                                   Q
[salma01@localhost ~]$ rpm -qa | grep gnome
    e-control-center-filesystem-40.0-29.el9.noarch
    -video-effects-0.5.0-7.el9.noarch
  ome-menus-3.36.0-8.el9.x86_64
pinentry-gnome3-1.1.1-8.el9.x86_64
  ome-desktop3-40.4-1.el9.x86_64
libgnomekbd-3.26.1-7.el9.x86_64
xdg-desktop-portal-gnome-41.2-2.el9.x86_64
    e-autoar-0.4.1-2.el9.x86_64
   me-bluetooth-libs-3.34.5-3.el9.x86_64
    e-keyring-40.0-3.el9.x86_64
   ne-keyring-pam-40.0-3.el9.x86_64
    -color-manager-3.36.0-7.el9.x86_64
    e-terminal-3.40.3-1.el9.x86_64
    -bluetooth-3.34.5-3.el9.x86 64
    e-control-center-40.0-29.el9.x86_64
   ne-tour-40.1-2.el9.x86_64
    -shell-extension-background-logo-40.0~rc-4.el9.noarch
    e-initial-setup-40.4-3.el9.x86_64
     -terminal-nautilus-3.40.3-1.el9.x86_64
    e-calculator-40.1-2.el9.x86_64
   ne-system-monitor-40.1-3.el9.x86_64
    -characters-40.0-3.el9.x86_64
    e-disk-utility-40.2-2.el9.x86_64
```

28. Install any uninstalled package from RH Enterprise Linux cds.

sudo yum install <package-name>

29. Search for software resemble the Photoshop software other than Gimp and install it.

sudo yum install canva

30. Create the file /etc/yum.repos.d/cdrom.repo to enable install from the iso of Red Hat.