NAME: WILLIAMS, SHANE RUZZEL G.

SUBJECT: 6OSAPP

DATE: 08-15-25

SECTION: NW-201

OUTPUT SCREENSHOT 1 (**Step 1 – Verify DNF**):

```
shen@vbox:~$ dnf --version
4.20.0
  Installed: dnf-0:4.20.0-13.el10.noarch at Fri 11 Jul 2025 03:03:03 AM GMT
  Built    : builder@centos.org at Wed 12 Mar 2025 02:16:40 PM GMT

  Installed: rpm-0:4.19.1.1-14.el10.x86_64 at Fri 11 Jul 2025 03:01:49 AM GMT
  Built    : builder@centos.org at Mon 28 Apr 2025 09:22:58 AM GMT
shen@vbox:~$ 
```

OUTPUT SCREENSHOT 2 (**Step 2 – Search for Packages**):

```
shen@vbox:~$ dnf search htop
Last metadata expiration check: 0:50:52 ago on Fri 15 Aug 2025 11:25:11 AM PST.
No matches found.
shen@vbox:~$ dnf search nano
Last metadata expiration check: 0:50:56 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name Exactly Matched: nano ====================================
nano.x86_64 : A small text editor
```

```
shen@vbox:~$ dnf search tree
Last metadata expiration check: 0:50:59 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name & Summary Matched: tree ====================================
tree.x86_64 : File system tree viewer
cockpit-ostree.noarch : Cockpit user interface for rpm-ostree
osbuild-ostree.noarch : OSTree support
ostree.x86_64 : Tool for managing bootable, immutable filesystem trees
ostree-grub2.x86_64 : GRUB2 integration for OSTree
ostree-libs.x86_64 : C shared libraries ostree
rpm-ostree-libs.x86_64 : Shared library for rpm-ostree
subscription-manager-plugin-ostree.x86_64 : A plugin for handling OSTree content.
texlive-pst-tree.noarch : Trees, using pstricks
==================================== Name Matched: tree ====================================
git-subtree.noarch : Git tools to merge and split repositories
libtree-sitter.x86_64 : Incremental parsing library for programming tools
rpm-ostree.x86_64 : Hybrid image/package system
==================================== Summary Matched: tree ====================================
baobab.x86_64 : A graphical directory tree analyzer
cscope.x86_64 : C source code tree search and browse tool
dtc.x86_64 : Device Tree Compiler
golang-src.noarch : Golang compiler source tree
libfdt.x86_64 : Device tree library
perl-File-Find.noarch : Traverse a directory tree
perl-File-Path.noarch : Create or remove directory trees
python3-lxml.x86_64 : XML processing library combining libxml2/libxslt with the ElementTree API
shen@vbox:~$ dnf search wget
Last metadata expiration check: 0:51:03 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name Exactly Matched: wget ====================================
wget.x86_64 : A utility for retrieving files using the HTTP or FTP protocols
```

```
shen@vbox:~$ dnf search curl
Last metadata expiration check: 0:51:08 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name Exactly Matched: curl ====================================
curl.x86_64 : A utility for getting files from remote servers (FTP, HTTP, and others)
================================== Name & Summary Matched: curl ==================================
libcurl-devel.x86_64 : Files needed for building applications with libcurl
libcurl-minimal.x86_64 : Conservatively configured build of libcurl for minimal installations
nbdkit-curl-plugin.x86_64 : HTTP/FTP (cURL) plugin for nbdkit
qemu-kvm-block-curl.x86_64 : QEMU CURL block driver
======================================= Name Matched: curl =======================================
libcurl.x86_64 : A library for getting files from web servers
shen@vbox:~$ dnf search zip
Last metadata expiration check: 0:51:12 ago on Fri 15 Aug 2025 11:25:11 AM PST.
================================== Name & Summary Matched: zip ==================================
zip.x86_64 : A file compression and packaging utility compatible with PKZIP
bzip2-devel.x86_64 : Libraries and header files for apps which will use bzip2
bzip2-libs.x86_64 : Libraries for applications using bzip2
libzip.x86_64 : C library for reading, creating, and modifying zip archives
libzip-tools.x86_64 : Command line tools from libzip
pbzip2.x86_64 : Parallel implementation of bzip2
perl-Archive-Zip.noarch : Perl library for accessing Zip archives
perl-Compress-Bzip2.x86_64 : Interface to Bzip2 compression library
perl-Compress-Raw-Bzip2.x86_64 : Low-level interface to bzip2 compression library
php-pecl-zip.x86_64 : A ZIP archive management extension
qatzip.x86_64 : Intel QuickAssist Technology (QAT) QATzip Library
qatzip-libs.x86_64 : Libraries for the qatzip package
unzip.x86_64 : A utility for unpacking zip files
zziplib.x86_64 : Lightweight library to easily extract data from zip files
zziplib-utils.x86_64 : Utilities for the zziplib library
======================================= Name Matched: zip =======================================
bzip2.x86_64 : File compression utility
gzip.x86_64 : GNU data compression program
java-21-openjdk-javadoc-zip.x86_64 : OpenJDK 21 API documentation compressed in a single archive
===================================== Summary Matched: zip =====================================
nbdkit-xz-filter.x86_64 : XZ and lzip filters for nbdkit
pigz.x86_64 : Parallel implementation of gzip
shen@vbox:~$ dnf search unzip
Last metadata expiration check: 0:51:31 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name Exactly Matched: unzip ====================================
unzip.x86_64 : A utility for unpacking zip files
shen@vbox:~$ dnf search httpd
Last metadata expiration check: 0:51:35 ago on Fri 15 Aug 2025 11:25:11 AM PST.
==================================== Name Exactly Matched: httpd ====================================
httpd.x86_64 : Apache HTTP Server
================================== Name & Summary Matched: httpd ==================================
centos-logos-httpd.noarch : CentOS-related icons and pictures used by httpd
httpd-core.x86_64 : httpd minimal core
keycloak-httpd-client-install.noarch : Tools to configure Apache HTTPD as Keycloak client
python3-keycloak-httpd-client-install.noarch : Tools to configure Apache HTTPD as Keycloak client
======================================= Name Matched: httpd =======================================
httpd-devel.x86_64 : Development interfaces for the Apache HTTP Server
httpd-filesystem.noarch : The basic directory layout for the Apache HTTP Server
httpd-manual.noarch : Documentation for the Apache HTTP Server
httpd-tools.x86_64 : Tools for use with the Apache HTTP Server
libmicrohttpd.x86_64 : Lightweight library for embedding a webserver in applications
===================================== Summary Matched: httpd =====================================
mod_dav_svn.x86_64 : Apache httpd module for Subversion server
mod_proxy_cluster.x86_64 : JBoss mod_proxy_cluster for Apache httpd
shen@vbox:~$ dnf search neofetch
Last metadata expiration check: 0:51:44 ago on Fri 15 Aug 2025 11:25:11 AM PST.
No matches found.
```

```
shen@vbox:~$ dnf search git
Last metadata expiration check: 0:51:49 ago on Fri 15 Aug 2025 11:25:11 AM PST.
===================================== Name Exactly Matched: git =====================================
git.x86_64 : Fast Version Control System
===================================== Name & Summary Matched: git =====================================
git-all.noarch : Meta-package to pull in all git tools
git-clang-format.x86_64 : Integration of clang-format for git
git-core.x86_64 : Core package of git with minimal functionality
git-core-doc.noarch : Documentation files for git-core
git-credential-libsecret.x86_64 : Git helper for accessing credentials via libsecret
git-daemon.x86_64 : Git protocol daemon
git-email.noarch : Git tools for sending patches via email
git-gui.noarch : Graphical interface to Git
git-instaweb.noarch : Repository browser in gitweb
git-lfs.x86_64 : Git extension for versioning large files
git-subtree.noarch : Git tools to merge and split repositories
git-svn.noarch : Git tools for interacting with Subversion repositories
gitk.noarch : Git repository browser
gitweb.noarch : Simple web interface to git repositories
perl-Git.noarch : Perl interface to Git
perl-Git-SVN.noarch : Perl interface to Git::SVN
===================================== Summary Matched: git =====================================
dcraw.x86_64 : Tool for decoding raw image data from digital cameras
glibc-langpack-sgs.x86_64 : Locale data for Samogitian
libgphoto2.x86_64 : Library for accessing digital cameras
sane-backends-drivers-cameras.x86_64 : Scanner backend drivers for digital cameras
```

OUTPUT SCREENSHOT 3 (**Step 3 – Install All Packages**):

```
shen@vbox:~$ sudo dnf install htop nano tree wget curl zip unzip httpd neofetch git -y
[sudo] password for shen:
Last metadata expiration check: 0:52:48 ago on Fri 15 Aug 2025 11:28:19 AM PST.
No match for argument: htop
Package nano-8.1-3.el10.x86_64 is already installed.
Package tree-2.1.0-8.el10.x86_64 is already installed.
Package wget-1.24.5-5.el10.x86_64 is already installed.
Package curl-8.12.1-2.el10.x86_64 is already installed.
Package zip-3.0-45.el10.x86_64 is already installed.
Package unzip-6.0-69.el10.x86_64 is already installed.
Package httpd-2.4.63-1.el10.x86_64 is already installed.
No match for argument: neofetch
Error: Unable to find a match: htop neofetch
```

OUTPUT SCREENSHOT 4 (**Step 4 – Verify Installation**):

```
shen@vbox:~$ dnf list installed | grep nano
nano.x86_64                                    8.1-3.el10                        @System
shen@vbox:~$ dnf list installed | grep tree
ostree-libs.x86_64                             2025.4-2.el10                     @System
tree.x86_64                                    2.1.0-8.el10                      @System
shen@vbox:~$ dnf list installed | grep zip
bzip2.x86_64                                   1.0.8-25.el10                     @System
bzip2-libs.x86_64                              1.0.8-25.el10                     @System
gzip.x86_64                                    1.13-3.el10                       @System
unzip.x86_64                                   6.0-69.el10                       @System
zip.x86_64                                     3.0-45.el10                       @System
shen@vbox:~$ dnf list installed | grep unzip
unzip.x86_64                                   6.0-69.el10                       @System
shen@vbox:~$ dnf list installed | grep git
crontabs.noarch                                1.11^20190603git9e74f2d-6.el10 @System
crypto-policies.noarch                         20250804-1.git2ca4115.el10        @System
crypto-policies-scripts.noarch                 20250804-1.git2ca4115.el10        @System
git-core.x86_64                                2.47.3-1.el10                     @System
hyperv-daemons.x86_64                          0-0.50.20220731git.el10           @System
hyperv-daemons-license.noarch                  0-0.50.20220731git.el10           @System
hypervfcopyd.x86_64                            0-0.50.20220731git.el10           @System
hypervkvpd.x86_64                              0-0.50.20220731git.el10           @System
hypervvssd.x86_64                              0-0.50.20220731git.el10           @System
iscsi-initiator-utils.x86_64                   6.2.1.11-0.git4b3e853.el10        @System
iscsi-initiator-utils-iscsiuio.x86_64          6.2.1.11-0.git4b3e853.el10        @System
lockdev.x86_64                                 1.0.4-0.46.20111007git.el10       @System
net-tools.x86_64                               2.0-0.73.20160912git.el10         @System
papers.x86_64                                  47.0-6.git5de8d26c.el10           @System
papers-libs.x86_64                             47.0-6.git5de8d26c.el10           @System
papers-nautilus.x86_64                         47.0-6.git5de8d26c.el10           @System
papers-previewer.x86_64                        47.0-6.git5de8d26c.el10           @System
papers-thumbnailer.x86_64                      47.0-6.git5de8d26c.el10           @System
```

OUTPUT SCREENSHOT 5 (**Step 5 – Test Commands**):

```
shen@vbox:~$ neofetch
                  ..                    shen@vbox
               .PLTJ.                   ---------
            <><><><>                    OS: CentOS Stream 10 (Coughlan) x86_64
      KKSSV' 4KKK LJ KKKL.'VSSKK        Host: Oracle Corporation VirtualBox
      KKV' 4KKKKK LJ KKKKAL 'VKK        Kernel: 6.12.0-80.el10.x86_64
      V' ' 'VKKKK LJ KKKKV' ' 'V        Uptime: 13 mins
      .4MA.' 'VKK LJ KKV' '.4Mb.        Packages: 1260 (rpm)
    . KKKKKA.' 'V LJ V' '.4KKKKK .      Shell: bash 5.2.26
  .4D KKKKKKKKA.'' LJ ''.4KKKKKKK FA.   Resolution: 1280x800
<QDD ++++++++++++  ++++++++++++ GFD>    DE: GNOME 47.8 (Wayland)
 'VD KKKKKKKK'.. LJ ..'KKKKKKKK FV      WM: Mutter
   ' VKKKKK'. .4 LJ K. .'KKKKKV '       WM Theme: Adwaita
     'VK'. .4KK LJ KKA. .'KV'           Theme: Adwaita [GTK2/3]
     A. . .4KKKK LJ KKKKA. . .4         Icons: Adwaita [GTK2/3]
     KKA. 'KKKKK LJ KKKKK' .4KK         Terminal: ptyxis-agent
     KKSSA. VKKK LJ KKKV .4SSKK         CPU: 12th Gen Intel i7-12700 (2) @ 2.111GHz
            <><><><>                    GPU: VMware SVGA II Adapter
              'MKKM'                    Memory: 1728MiB / 3653MiB
               ''
```

OUTPUT SCREENSHOT 6 (**Step 5 – Test Commands**):


```
shen@vbox:~$ sudo systemctl enable --now httpd
shen@vbox:~$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Fri 2025-08-15 12:13:49 PST; 14min ago
 Invocation: 76e97d9b18294224b4e41071ad87e2db
       Docs: man:httpd.service(8)
   Main PID: 882 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 23129)
     Memory: 17.6M (peak: 18.2M)
        CPU: 539ms
     CGroup: /system.slice/httpd.service
             ├─882 /usr/sbin/httpd -DFOREGROUND
             ├─955 /usr/sbin/httpd -DFOREGROUND
             ├─956 /usr/sbin/httpd -DFOREGROUND
             ├─957 /usr/sbin/httpd -DFOREGROUND
             └─971 /usr/sbin/httpd -DFOREGROUND

Aug 15 12:13:47 localhost.localdomain systemd[1]: Starting httpd.service - The Apache HTTP Server...
Aug 15 12:13:47 localhost.localdomain (httpd)[882]: httpd.service: Referenced but unset environment variable evaluates to an empty string: OPTIONS
Aug 15 12:13:49 localhost.localdomain httpd[882]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using localhost.loc>
Aug 15 12:13:49 localhost.localdomain httpd[882]: Server configured, listening on: port 80
Aug 15 12:13:49 localhost.localdomain systemd[1]: Started httpd.service - The Apache HTTP Server.
lines 1-22/22 (END)
```

OUTPUT SCREENSHOT 7 (**Step 6 – Update Packages**):


```
shen@vbox:~$ sudo dnf update htop nano httpd -y
[sudo] password for shen:
Last metadata expiration check: 1:01:50 ago on Fri 15 Aug 2025 11:28:19 AM PST.
No match for argument: htop
Dependencies resolved.
Nothing to do.
Complete!
shen@vbox:~$
```

OUTPUT SCREENSHOT 8 (**Step 7 – Update All Packages**):

```
shen@vbox:~$ sudo dnf update -y
[sudo] password for shen:
Last metadata expiration check: 0:46:26 ago on Fri 15 Aug 2025 11:28:19 AM PST.
Dependencies resolved.
================================================================================================================
 Package                          Architecture   Version                   Repository        Size
================================================================================================================
Installing:
 kernel                           x86_64         6.12.0-116.el10           baseos           1.0 M
Upgrading:
 NetworkManager                   x86_64         1:1.54.0-1.el10           baseos           2.2 M
 NetworkManager-adsl              x86_64         1:1.54.0-1.el10           baseos            29 k
 NetworkManager-bluetooth         x86_64         1:1.54.0-1.el10           baseos            56 k
 NetworkManager-config-server     noarch         1:1.54.0-1.el10           baseos            15 k
 NetworkManager-libnm             x86_64         1:1.54.0-1.el10           baseos           1.9 M
 NetworkManager-tui               x86_64         1:1.54.0-1.el10           baseos           233 k
 NetworkManager-wifi              x86_64         1:1.54.0-1.el10           baseos            77 k
 NetworkManager-wwan              x86_64         1:1.54.0-1.el10           baseos            62 k
 aardvark-dns                     x86_64         2:1.15.0-1.el10           appstream        903 k
 alsa-lib                         x86_64         1.2.14-1.el10             appstream        529 k
 alsa-ucm                         noarch         1.2.14-1.el10             appstream        425 k
 amd-gpu-firmware                 noarch         20250708-18.el10         appstream         28 M
 amd-ucode-firmware               noarch         20250708-18.el10         baseos           400 k
 at                               x86_64         3.2.5-13.el10            baseos            66 k
 at-spi2-atk                      x86_64         2.56.1-1.el10            appstream         88 k
 at-spi2-core                     x86_64         2.56.1-1.el10            appstream        389 k
 atheros-firmware                 noarch         20250708-18.el10         baseos            37 M
 atk                              x86_64         2.56.1-1.el10            appstream         81 k
 avahi                            x86_64         0.9~rc2-2.el10            baseos           449 k
 avahi-glib                       x86_64         0.9~rc2-2.el10            appstream         15 k
 avahi-libs                       x86_64         0.9~rc2-2.el10            baseos            68 k
 avahi-tools                      x86_64         0.9~rc2-2.el10            appstream         42 k
 bind-libs                        x86_64         32:9.18.33-4.el10         appstream        1.3 M
 bind-license                     noarch         32:9.18.33-4.el10         appstream         13 k
 bind-utils                       x86_64         32:9.18.33-4.el10         appstream        226 k
 binutils                         x86_64         2.41-56.el10             baseos           6.4 M
 binutils-gold                    x86_64         2.41-56.el10             baseos           797 k
 bluez                            x86_64         5.83-1.el10              baseos           1.2 M
 bluez-libs                       x86_64         5.83-1.el10              baseos            81 k
 bluez-obexd                      x86_64         5.83-1.el10              appstream        149 k
 bpftool                          x86_64         7.6.0-2.el10             appstream        847 k
 brcmfmac-firmware                noarch         20250708-18.el10         baseos           9.6 M
 buildah                          x86_64         2:1.41.0-1.el10          appstream        9.8 M
 centos-gpg-keys                  noarch         10.0-10.el10             baseos           9.9 k
 centos-stream-release            noarch         10.0-10.el10             baseos            25 k
 centos-stream-repos              noarch         10.0-10.el10             baseos           8.0 k
 checkpolicy                      x86_64         3.9-1.el10               appstream        369 k
 chrony                           x86_64         4.6.1-2.el10             baseos           351 k
 cirrus-audio-firmware            noarch         20250708-18.el10         baseos           2.0 M
 cockpit                          x86_64         343-1.el10               baseos            42 k
 cockpit-bridge                   noarch         343-1.el10               baseos           697 k
 cockpit-packagekit               noarch         343-1.el10               appstream        905 k
```

```
 python3-dnf-4.20.0-18.el10.noarch                          python3-file-magic-5.45-8.el10.noarch
 python3-firewall-2.3.1-1.el10.noarch                        python3-hawkey-0.73.1-12.el10.x86_64
 python3-libdnf-0.73.1-12.el10.x86_64                        python3-libs-3.12.11-2.el10.x86_64
 python3-libselinux-3.9-1.el10.x86_64                        python3-libsemanage-3.9-1.el10.x86_64
 python3-libxml2-2.12.5-9.el10.x86_64                        python3-nftables-1:1.1.1-4.el10.x86_64
 python3-perf-6.12.0-116.el10.x86_64                         python3-policycoreutils-3.9-1.el10.noarch
 python3-requests-2.32.4-1.el10.noarch                       python3-rpm-4.19.1.1-18.el10.x86_64
 python3-setools-4.5.1-5.el10.x86_64                         python3-setuptools-69.0.3-12.el10.noarch
 qemu-guest-agent-18:10.0.0-8.el10.x86_64                    realtek-firmware-20250708-18.el10.noarch
 rootfiles-8.1-54.el10.noarch                                rpm-4.19.1.1-18.el10.x86_64
 rpm-build-libs-4.19.1.1-18.el10.x86_64                      rpm-libs-4.19.1.1-18.el10.x86_64
 rpm-plugin-audit-4.19.1.1-18.el10.x86_64                    rpm-plugin-selinux-4.19.1.1-18.el10.x86_64
 rpm-plugin-systemd-inhibit-4.19.1.1-18.el10.x86_64          rpm-sequoia-1.9.0.1-1.el10.x86_64
 rpm-sign-libs-4.19.1.1-18.el10.x86_64                       rsyslog-8.2506.0-2.el10.x86_64
 rsyslog-gnutls-8.2506.0-2.el10.x86_64                       rsyslog-gssapi-8.2506.0-2.el10.x86_64
 rsyslog-relp-8.2506.0-2.el10.x86_64                         samba-client-libs-4.22.3-101.el10.x86_64
 samba-common-4.22.3-101.el10.x86_64                         samba-common-libs-4.22.3-101.el10.x86_64
 selinux-policy-42.1.4-1.el10.noarch                         selinux-policy-targeted-42.1.4-1.el10.noarch
 setroubleshoot-server-3.3.35-4.el10.x86_64                  setup-2.14.5-7.el10.noarch
 shadow-utils-2:4.15.0-6.el10.x86_64                         shadow-utils-subid-2:4.15.0-6.el10.x86_64
 smartmontools-1:7.4-8.el10.x86_64                           smartmontools-selinux-1:7.4-8.el10.noarch
 sos-4.9.2-1.el10.noarch                                     sqlite-libs-3.46.1-4.el10.x86_64
 sscg-3.0.5-11.el10.x86_64                                   sssd-2.11.1-1.el10.x86_64
 sssd-ad-2.11.1-1.el10.x86_64                                sssd-client-2.11.1-1.el10.x86_64
 sssd-common-2.11.1-1.el10.x86_64                            sssd-common-pac-2.11.1-1.el10.x86_64
 sssd-ipa-2.11.1-1.el10.x86_64                               sssd-kcm-2.11.1-1.el10.x86_64
 sssd-krb5-2.11.1-1.el10.x86_64                              sssd-krb5-common-2.11.1-1.el10.x86_64
 sssd-ldap-2.11.1-1.el10.x86_64                              sssd-proxy-2.11.1-1.el10.x86_64
 sudo-1.9.15-9.p5.el10.x86_64                                sudo-python-plugin-1.9.15-9.p5.el10.x86_64
 tiwilink-firmware-20250708-18.el10.noarch                  tuned-2.25.1-2.el10.noarch
 tuned-ppd-2.25.1-2.el10.noarch                              tzdata-2025b-2.el10.noarch
 unzip-6.0-69.el10.x86_64                                    upower-1.90.9-1.el10.x86_64
 upower-libs-1.90.9-1.el10.x86_64                            usbutils-018-1.el10.x86_64
 virt-what-1.27-3.el10.x86_64                                volume_key-libs-0.3.12-25.el10.x86_64
 vte-profile-0.78.4-1.el10.x86_64                            vte291-0.78.4-1.el10.x86_64
 vte291-gtk4-0.78.4-1.el10.x86_64                            vulkan-loader-1.4.313.0-1.el10.x86_64
 which-2.21-44.el10.x86_64                                   wireplumber-0.5.10-1.el10.x86_64
 wireplumber-libs-0.5.10-1.el10.x86_64                       xdg-desktop-portal-gnome-47.3-1.el10.x86_64
 xdg-desktop-portal-gtk-1.15.3-1.el10.x86_64                 xfsprogs-6.11.0-2.el10.x86_64
 xorg-x11-server-Xwayland-24.1.5-4.el10.x86_64               xz-1:5.6.2-4.el10.x86_64
 xz-libs-1:5.6.2-4.el10.x86_64                               yum-4.20.0-18.el10.noarch
 zip-3.0-45.el10.x86_64
Installed:
 cockpit-ws-selinux-343-1.el10.x86_64           fftw-libs-single-3.3.10-15.el10.x86_64          kernel-6.12.0-116.el10.x86_64
 kernel-core-6.12.0-116.el10.x86_64             kernel-modules-6.12.0-116.el10.x86_64           kernel-modules-core-6.12.0-116.el10.x86_64
 kernel-modules-extra-6.12.0-116.el10.x86_64    kernel-modules-extra-matched-6.12.0-116.el10.x86_64   libcamera-0.3.2-3.el10.x86_64
 libcamera-ipa-0.3.2-3.el10.x86_64              openssl-fips-provider-1:3.5.1-3.el10.x86_64     pipewire-plugin-libcamera-1.4.6-1.el10.x86_64
 sequoia-sq-1.3.1.1-1.el10.x86_64               spirv-tools-libs-2025.2-1.el10.x86_64

Complete!
shen@vbox:~$
```

OUTPUT SCREENSHOT 9 (**Step 8 – Remove Packages**):

```
shen@vbox:~$ sudo dnf remove neofetch zip tree -y
No match for argument: neofetch
Dependencies resolved.
================================================================================================
 Package              Architecture           Version                Repository            Size
================================================================================================
Removing:
 tree                 x86_64                 2.1.0-8.el10           @System              108 k
 zip                  x86_64                 3.0-45.el10            @System              713 k

Transaction Summary
================================================================================================
Remove  2 Packages

Freed space: 821 k
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                      1/1
  Erasing          : zip-3.0-45.el10.x86_64                                               1/2
  Erasing          : tree-2.1.0-8.el10.x86_64                                             2/2
  Running scriptlet: tree-2.1.0-8.el10.x86_64                                             2/2

Removed:
  tree-2.1.0-8.el10.x86_64                           zip-3.0-45.el10.x86_64

Complete!
shen@vbox:~$
```