```
File Edit View Search Terminal Help
Wed Apr 3 13:49:24 IST 2024
                              Main Menu
                       -----

    Create a user

                       2. Change the group for user
                       3. Create a group
                       4. Check password status
                       5. Change password
                       6. Lock user account
                       7. Unlock user account
                       8. Delete user
                       9. Exit
 Please enter the number of your selection 1
 Enter username to be created: deeksha
                       User deeksha created successfully
Press enter to continue
Wed Apr 3 13:50:18 IST 2024
                              Main Menu
                       1. Create a user
                      2. Change the group for user
                      3. Create a group
                      4. Check password status
                      5. Change password
                      6. Lock user account
                      7. Unlock user account
                      8. Delete user
                      9. Exit
 Please enter the number of your selection 2
                      NO SPECIAL CHARACTERS OR SPACES
Enter username:
                 deeksh
Enter group name:Deekshita
usermod: group 'deeksh' does not exist
                      Group changed successfully for user deeksh
Press enter to continue
Wed Apr 3 13:52:20 IST 2024
                              Main Menu
                       -----
                       1. Create a user
                       2. Change the group for user
                       3. Create a group
                       4. Check password status
                       Change password
                       6. Lock user account
                       7. Unlock user account
                       8. Delete user
                      9. Exit
 Please enter the number of your selection 3
Enter groupname to be created:navneet
                      Group already exists
Press enter to continue
```

Wed Apr 3 13:53:00 IST 2024 Main Menu -----1. Create a user 2. Change the group for user 3. Create a group 4. Check password status 5. Change password Lock user account 7. Unlock user account 8. Delete user 9. Exit Please enter the number of your selection 4 USE COMBINATION OF CAPITAL , SMALL , NUMBERS AND SPECIAL CHARACTERS TO CREA TE A STRONG PASSWORD Enter username to change password :Deekshita Changing password for user Deekshita. New password: BAD PASSWORD: The password contains the user name in some form Retype new password: passwd: all authentication tokens updated successfully. Press enter to continue Wed Apr 3 13:53:56 IST 2024 Main Menu ----- Create a user 2. Change the group for user 3. Create a group 4. Check password status 5. Change password 6. Lock user account 7. Unlock user account 8. Delete user 9. Exit Please enter the number of your selection 5 Enter username: deekshita Changing password for user deekshita. New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password: passwd: all authentication tokens updated successfully. Password for deekshita chnaged successfully Press enter to continue Wed Apr 3 13:55:08 IST 2024 -----Main Menu -----1. Create a user

- 2. Change the group for user
- 3. Create a group
- 4. Check password status
- Change password
- 6. Lock user account
- Unlock user account
- 8. Delete user
- Exit

Please enter the number of your selection 6

Enter username to be locked :Deekshita

User Deekshita locked successfully

Press enter to continue

Wed Apr 3 13:55:33 IST 2024 Main Menu 1. Create a user 2. Change the group for user 3. Create a group 4. Check password status 5. Change password 6. Lock user account 7. Unlock user account 8. Delete user 9. Exit Please enter the number of your selection 7 Enter username to be unlocked :Deekshita User Deekshita unlocked successfully Press enter to continue Wed Apr 3 14:01:02 IST 2024 Main Menu -----1. Create a user 2. Change the group for user 3. Create a group 4. Check password status 5. Change password 6. Lock user account Unlock user account 8. Delete user 9. Exit Please enter the number of your selection 8 Enter username to be deleted: Deekshita Are you sure you want to delete this user Deekshita and associated files (Y/N): y User Deekshita deleted successfully Press enter to continue Wed Apr 3 14:01:46 IST 2024 Main Menu -----1. Create a user 2. Change the group for user 3. Create a group 4. Check password status 5. Change password 6. Lock user account 7. Unlock user account 8. Delete user 9. Exit Please enter the number of your selection 9 Exiting the script [root@deekshita donthuladeekshita]#

```
#!/bin/bash
txtred=$(tput setaf 1)
txtgrn=$(tput setaf 2)
txtylw=$(tput setaf 3)
txtblu=$(tput setaf 4)
txtpur=$(tput setaf 5)
txtcyn=$(tput setaf 6)
txtrst=$(tput sgr0)
COLUMNS=$(tput cols)
center() {
w=\$((\$COLUMNS / 2 - 20))
while IFS= read -r line
printf "%${w}s %s\n" ' ' "$line"
done
}
centerwide() {
w=\$((\$COLUMNS / 2 - 30))
while IFS= read -r line
printf "%${w}s %s\n" ' ' "$line"
done
}
#Creating user
create user(){
read -p "${txtblu} Enter username to be created: ${txtrst}" username
if id "$username" &>/dev/null;then
echo "${txtylw}User $username already exists ${txtrst}"|center
echo
else
useradd $username
echo "${txtgrn}User $username created successfully ${txtrst}"|center
fi
}
#changing group for user
change_group(){
        echo "${txtred}NO SPECIAL CHARACTERS OR SPACES ${txtrst}"|center
                         " username
read -p "Enter username:
read -p "Enter group name:" groupname
if id "$username" &>/dev/null; then
if grep -q "^$groupname:" /etc/group; then
usermod -g $groupname $username
echo "${txtgrn}Group chnaged successfully for user $username ${txtrst}"|center
echo "${txtylw}Group $groupname does not exist ${txtrst}"|center
```

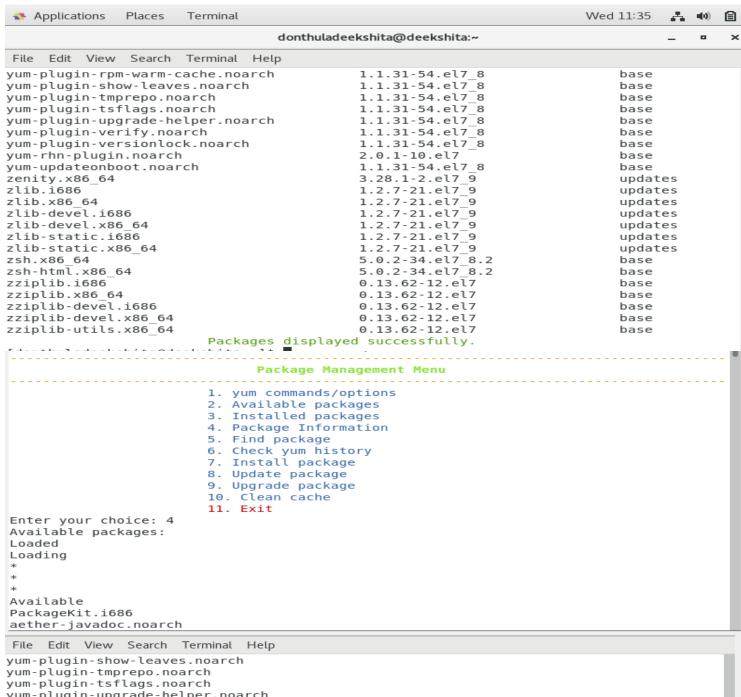
```
fi
else
usermod -g $username $groupname
echo "${txtgrn}Group changed successfully for user $username ${txtrst}"|center
fi
}
#Creating group
create_group(){
read -p "Enter groupname to be created: groupname
if grep -q "^$groupname:" /etc/group; then
echo "${txtylw}Group $ugroupname already exists ${txtrst}"|center
echo
else
groupadd $groupname
fi
}
#To check passwd status
check_passwd_status(){
echo "${txtylw}USE COMBINATION OF CAPITAL ,SMALL ,NUMBERS AND SPECIAL CHARACTERS TO
CREATE A STRONG PASSWORD ${txtrst}"|centerwide
read -p "Enter username to change password :" username
if id "$username" &>/dev/null;then
passwd $username
else
echo "${txtred}User $username does not exist ${txtrst}"|center
#To change password
change_passwd(){
read -p " Enter username: " username
if id "$username" &>/dev/null;then
passwd $username
if [ $? -eq 0 ]; then
echo "${txtgrn} Password for $username chnaged successfully ${txtrst}"
else
echo "${txtred} Failed to change password for $username ${txtrst}"
passwd -S $username | grep -q "WEAK"
if [ $? -eq 0 ];then
echo " ${txtpur} Password fo $username is weak ${txtrst}"
fi
else
echo "User $username does not exist"
fi
}
```

```
#To lock user
lock_user(){
read -p "Enter username to be locked :" username
usermod -L $username
echo "${txtgrn} User $username locked successfully ${txtrst} "|center
#To Unlock user
unlock user(){
read -p "Enter username to be unlocked: " username
usermod -U $username
echo "${txtgrn}User $username unlocked successfully ${txtrst} "|center
}
#To Delete user
delete user() {
    read -p "Enter username to be deleted: " username
    if id "$username" &>/dev/null; then
        read -p "Are you sure you want to delete this user $username and associated
files (Y/N): " confirm
        if [[ "$confirm" == "Y" || "$confirm" == "y" ]]; then
            sudo userdel -r "$username"
            echo "User $username deleted successfully"
        else
            echo "Deletion cancelled"
        fi
    else
        echo "User $username does not exist"
    fi
}
Exit() {
        echo "Exiting the script"
exit 0
# Purpose - Display a menu on screen
while:
do
clear
date
              Main Menu "| center
echo "-----"|center
echo "${txtcyn}1. Create a user${txtcyn}" | center
echo "${txtcyn}2. Change the group for user${txtcyn}" | center
echo "${txtcyn}3. Create a group${txtcyn}" | center
echo "${txtcyn}4. Check password status${txtcyn}" | center
echo "${txtcyn}5. Change password${txtcyn}"| center
echo "${txtcyn}6. Lock user account${txtcyn}" | center
echo "${txtcyn}7. Unlock user account${txtcyn}" | center
```

```
echo "${txtcyn}8. Delete user${txtcyn}"| center
echo "${txtred}9. Exit ${txtred}" | center
read -p "${txtgrn} Please enter the number of your selection ${txtrst}" choice
case $choice in
1)create_user;;
2)change_group;;
3)create_group;;
4)check_passwd_status;;
5)change_passwd;;
6)lock_user;;
7)unlock_user;;
8)delete_user;;
9)Exit;;
*)echo "Invalid choice:Please select a valid option...";;
esac
read -p "${txtrst}Press enter to continue ${txtrst}"
done
```

Package Management Menu yum commands/options 2. Available packages Installed packages 4. Package Information Find package 6. Check yum history 7. Install package 8. Update package 9. Upgrade package 10. Clean cache 11. Exit Enter your choice: 2 Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile * base: mirrors.nxtgen.com * extras: mirrors.nxtgen.com * updates: mirrors.nxtgen.com . Available Packages 389-ds-base.x86 64 1.3.11.1-4.el7_9 1.3.11.1-4.el7_9 updates 389-ds-base-devel.x86_64 updates 389-ds-base-libs.x86 64 1.3.11.1-4.el7⁻9 updates donthuladeekshita@deekshita:~ _ -File Edit View Search Terminal Help vum(8) vum(8) NAME yum - Yellowdog Updater Modified SYNOPSIS yum [options] command [package ...] DESCRIPTION yum is an interactive, rpm based, package manager. It can automatically perform system updates, including dependency analysis and obsolete processing based on "repository" metadata. It can also perform installation of new packages, removal of old packages and perform queries on the installed and/or available packages among many other commands/services (see below). **yum** is similar to other high level package managers like apt-get and smart. While there are some graphical interfaces directly to the **yum** code, more recent graphical interface development is happening with PackageKit and the gnome-packagekit application. command is one of:
 * install package1 [package2] [...]
 * update [package1] [package2] [...]
 * update-to [package1] [package2] [. Manual page yum(8) line 1 (press h for help or q to quit) donthuladeekshita@deekshita:/home/donthuladeekshita × File Edit View Search Terminal Help [root@deekshita donthuladeekshita]# bash exp7b ______ Package Management Menu 1. yum commands/options 2. Available packages 3. Installed packages 4. Package Information 5. Find package 6. Check yum history 7. Install package 8. Update package I 9. Upgrade package 10. Clean cache 11. Exit Enter your choice: 3 Enter package name: tree

Package 'tree' is already installed.



yum-plugin-upgrade-helper.noarch yum-plugin-verify.noarch yum-plugin-versionlock.noarch yum-rhn-plugin.noarch yum-updateonboot.noarch zenity.x86 64 zlib-devel.i686 zlib-static.i686 zlib-static.x86 64 zsh.x86 64 zsh-html.x86 64 zziplib.i686 zziplib-devel.i686 zziplib-devel.x86 64 zziplib-utils.x86 64 Attempting to install packages... Enter package name: tree Package 'tree' is already installed.

```
File Edit View Search Terminal Help
yum-plugin-tmprepo.noarch
yum-plugin-tsflags.noarch
yum-plugin-upgrade-helper.noarch
yum-plugin-verify.noarch
yum-plugin-versionlock.noarch
yum-rhn-plugin.noarch
yum-updateonboot.noarch
zenity.x86_64
zlib-devel.i686
zlib-static.i686
zlib-static.x86 64
zsh.x86 64
zsh-html.x86 64
zziplib.i686
zziplib-devel.i686
zziplib-devel.x86 64
zziplib-utils.x86 64
Attempting to install packages...
Enter package name: git
Package 'git' is not installed. Do you want to install it? (y/n): y
                       Package 'git' installed successfully.
                               Package Management Menu
                         1. yum commands/options
                         Available packages

    Installed packages
    Package Information

                         Find package

    Check yum history
    Install package

                         8. Update package
                         9. Upgrade package
                         10. Clean cache
                         11. Exit
Enter your choice: 5
Enter search keyword: tree
                         Package found successfully
                        donthuladeekshita@deekshita:/home/donthuladeekshita
                                                                                  _ = ×
 File Edit View Search Terminal Help
                               Package Management Menu

    yum commands/options

                         Available packages
                         3. Installed packages
                         4. Package Information
                         Find package

    Check yum history
    Install package

                         8. Update package
                         9. Upgrade package
                         10. Clean cache
                         11. Exit
Enter your choice: 6
Loaded plugins: fastestmirror, langpacks, refresh-packagekit
ID | Command line
                                 | Date and time | Action(s)
                                                                        | Altered
 ______
   113 | install -y aether.noarch | 2024-04-03 12:30 | I, U
                                                                             87 EE
       | install -y adwaita-qt5.i |
   112
                                     2024-04-03 12:30 | I, U
                                                                             13
   111 | install -y adwaita-qt4.i | 2024-04-03 12:30 | Install
                                                                             1
   110 | install -y adwaita-qt-co | 2024-04-03 12:30 | Install
                                                                              1
   109 | install -y adwaita-qt.x8 | 2024-04-03 12:30 | Install
108 | install -y adwaita-icon- | 2024-04-03 12:30 | Install
                                                                              2
                                                                              1
   107 | install -y adwaita-gtk2- | 2024-04-03 12:30 | Install
                                                                              1
   106 | install -y advancecomp.x | 2024-04-03 12:30 | Install
```

There are unfinished transactions remaining. You might consider running yum-complete-transaction. or "vum-complete-transaction --cleanup-onlv" and "vum history redo last". fi

* updates: mirrors.hostever.com

Resolving Dependencies

```
libibverbs-22.4-6.el7 9.x86 64
  Updating
                                                                                 11/401
             : librdmacm-22.4-6.el7 9.x86 64
                                                                                 12/401
  Updating
            : brasero-3.12.2-5.el7_9.1.x86_64
: ndctl-libs-65-6.el7_9.x86_64
  Updating
                                                                                 13/401
                                                                                 14/401
  Updating
  Updating
            : xmlsec1-openssl-1.2.20-8.el7 9.x86 64
                                                                                15/401
             : open-vm-tools-11.0.5-3.el7_9.9.x86_64
                                                                                 16/401
  Updating
  Updating
            : 32:bind-libs-9.11.4-26.P2.el7 9.15.x86 64
                                                                                17/401
            : flatpak-libs-1.0.9-12.el7_9.x86_64
: flatpak-1.0.9-12.el7_9.x86_64
  Updating
                                                                                18/401
  Updating
                                                                                19/401
            : cronie-1.4.11-25.el7 9.x86 64
                                                                                20/401
  Updating
  Updating
             : cronie-anacron-1.4.11-25.el7 9.x86 64
                                                                                21/401
             : ibus-gtk2-1.5.17-14.el7 9.x86 64
                                                                                22/401
  Updating
            : ibus-gtk3-1.5.17-14.el7_9.x86_64
                                                                                23/401
  Updating
  Updating
             : ibus-1.5.17-14.el7_9.x86_64
                                                                                24/401
                                                                                25/401
  Updating
            : ibus-setup-1.5.17-14.el7_9.noarch
            : kbd-misc-1.15.5-16.el7_9.noarch
  Updating
                                                                                26/401
            : mesa-filesystem-18.3.4-12.el7 9.x86 64
                                                                                27/401
  Updating
  Updating
            : mesa-dri-drivers-18.3.4-12.el7 9.x86 64
                                                                                28/401
             : glusterfs-cli-6.0-61.el7.x86 64
                                                                                 29/401
  Updating
            : device-mapper-persistent-data-0.8.5-3.el7 9.2.x86 64
                                                                                30/401
  Updating
           31/401^
  Updating
                                                                                31/401^
  Updating
  Updating
           : linux-firmware-20200421-82.git78c0348.el7_9.noarch
                                                                                31/401
^c^c^c
                              Failed to update packages. Please try again later.
[root@deekshita donthuladeekshita]# ^C
[root@deekshita donthuladeekshita]# ^C
                              Package Management Menu
                        1. yum commands/options
                        Available packages
                        Installed packages
                        4. Package Information
                        Find package
                        6. Check yum history
                        Install package
                        Update package
                        9. Upgrade package

    Clean cache
    Exit

Enter your choice: 9
Are you sure you want to upgrade all packages? (y/n): y
Loaded plugins: fastestmirror, langpacks, refresh-packagekit
Loading mirror speeds from cached hostfile
 * base: mirrors.hostever.com
 * extras: mirrors.hostever.com
 * updates: mirrors.hostever.com
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-complete-tr
<u>ansaction. or "vum-complete-transaction --cleanup-onlv" and "vum historv redo last". fi</u>
File Edit View Search Terminal Help vim-minima i
                                                                            ираатеѕ 443 к
                                     X8b_b4_2:/.4.b29-8.el/
                                                                            updates 30 k
 virt-what
                                     x86 64 1.18-4.el7 9.1
                                                                            updates
                                                                                     28 M
 webkitatk4
                                     x86_64 2.28.2-3.el7
 webkitgtk4-jsc
                                     x86 64 2.28.2-3.el7
                                                                            updates 5.7 M
 wpa_supplicant
                                     x86 64 1:2.6-12.el7 9.2
                                                                            updates 1.2 M
                                                                           updates 309 k
 xfsdump
                                     x86_64 3.1.7-4.el7_9
                                     x86 64 19.0.1-3.el7
                                                                            updates 166 k
 xorg-x11-drv-ati
                                     x86 64 1.20.4-27.el7 9
                                                                            updates 1.5 M
 xora-x11-server-Xora
```

Transaction Summary

zenity

Install 1 Package Upgrade 169 Packages

Total size: 340 M Downloading packages: Running transaction check Running transaction test

xorg-x11-server-common

File Edit View Search Terminal Help

Transaction check error:

file /usr/share/man/man8/gluster.8.gz from install of glusterfs-6.0-61.el7.x86_64 con flicts with file from package glusterfs-cli-6.0-37.el7.x86_64

x86 64 1.20.4-27.el7 9

x86 64 3.28.1-2.el7 9

updates 58 k

updates 4.0 M

```
Package Management Menu

    yum commands/options

                         2. Available packages
                         3. Installed packages
                         4. Package Information
                         5. Find package
                         6. Check yum history
                         7. Install package
                         8. Update package
                         9. Upgrade package
                         10. Clean cache
                         11. Exit
Enter your choice: 10
Are you sure you want to clean the cache? This action cannot be undone. (y/n): y
Loaded plugins: fastestmirror, langpacks
Cleaning repos: base extras updates
Cleaning up list of fastest mirrors
Other repos take up 1.2 G of disk space (use --verbose for details)
Cache cleaned successfully
                            Package Management Menu

    yum commands/options

                       Available packages
                       3. Installed packages
                       4. Package Information
                       5. Find package
                       6. Check yum history
                       7. Install package
                       8. Update package
                        9. Upgrade package
                       10. Clean cache
                       11. Exit
Enter your choice: 11
                       Exiting the script
[donthuladeekshita@deekshita ~]$
```

```
#!/bin/bash
bold=$(tput bold)
txtred=$(tput setaf 1)
txtgrn=$(tput setaf 2)
txtylw=$(tput setaf 3)
txtblu=$(tput setaf 4)
txtpur=$(tput setaf 5)
txtcyn=$(tput setaf 6)
txtrst=$(tput sgr0)
COLUMNS=$(tput cols)
center() {
    w=\$((\$COLUMNS / 2 - 20))
    while IFS= read -r line
    do
        printf "%${w}s %s\n" ' ' "$line"
    done
}
centerwide() {
    w=\$((\$COLUMNS / 2 - 30))
    while IFS= read -r line
    do
        printf "%${w}s %s\n" ' ' "$line"
    done
}
# Function to display yum commands/options
function display yum commands() {
    #yum help
    if man yum &>/dev/null; then
        man yum
        echo "${txtgrn}Command displayed successfully.${txtrst}"|center
    else
        echo "${txtred}Cannot display yum commands.${txtrst}"|center
    fi
}
# Function to display available packages
function display available packages() {
    # yum list available
    if packages=$(yum list available); then
        echo "$packages"
        echo "${txtgrn}Packages displayed successfully.${txtrst}"|center
    else
        echo "${txtred}Failed to display packages.${txtrst}"|center
    fi
}
# Function to display installed packages
```

```
function display_installed_packages() {
   read -p "Enter package name: " package
   if yum list installed "$package" &>/dev/null; then
       echo "${txtgrn}Package '$package' is already installed.${txtrst}" | center
   else
       read -p "Package '$package' is not installed. Do you want to install it?
(y/n): " confirm
       if [[ $confirm == "y" || $confirm == "Y" ]]; then
           if yum install -y "$package" &>/dev/null; then
               echo "${txtgrn}Package '$package' installed successfully.${txtrst}"
center
           else
               echo "${txtred}Failed to install package '$package'.${txtrst}" |
center
           fi
       else
           echo "${txtylw}Package installation cancelled.${txtrst}" | center
       fi
   fi
}
# Function to display package information
function display_package_info() {
   #yum list available
   packages=$(yum list available | awk '{print $1}')
   if [[ -n "$packages" ]]; then
       echo "Available packages:"
       echo "$packages"
       echo "-----"
       echo "Attempting to install packages..."
       echo "-----"
       success_count=0
       failed count=0
       for package in $packages; do
           display_installed_packages "$package"
           if yum list installed "$package" &>/dev/null; then
               ((success count++))
           else
               ((failed_count++))
           fi
       done
       echo "-----"
       echo "Installation summary:"
       echo "${txtgrn}Successful installations: $success_count
${txtrst}"|centerwide
       echo "${txtred}Failed installations: $failed_count ${txtrst}"|center
   else
       echo "${txtred}No available packages found.${txtrst}"|center
   fi
```

```
}
# Function to find a package
function find package() {
    read -p "${txtylw}Enter search keyword: ${txtrst}" keyword|center
      search result=$(yum search all "$keyword")|center;then
if
echo "${txtgrn}Package found successfully${txtrst}"|center
else
echo "${txtred}Package not found${txtrst}"|center
fi
 # echo "Search result: $search_result" # Debug statement
}
# Function to check yum history
function check yum history() {
    if history=$(yum history); then
        echo "$history"
        echo "${txtgrn}Yum history displayed successfully.${txtrst}"|center
    else
        echo "${txtred}Failed to display yum history. ${txtrst}"|center
   fi
}
# Function to install a package
function install_package() {
    read -p "${txtylw}Enter package name to install: ${txtrst}" package
    read -p "${txtblu}Are you sure you want to install the package '$package'?
(y/n): ${txtrst} " confirm
    if [[ $confirm == "y" || $confirm == "Y" ]]; then
        if yum install -y "$package"; then
            echo "${txtgrn}Package '$package' installed successfully.
${txtrst}"|center
            echo "${txtred}Failed to install package '$package'.${txtrst}"|center
        fi
   else
        echo "${txtred}Installation cancelled.${txtrst}"|center
   fi
}
# Function to update packages
function update packages() {
    read -p "${txtylw}Are you sure you want to update all packages? (y/n):
${txtrst}" confirm
    if [[ $confirm == "y" || $confirm == "Y" ]]; then
        if yum update -y; then
            echo "${txtgrn}Packages updated successfully.${txtrst}" | center
        else
            echo "${txtred}Failed to update packages. Please try again
```

```
later.${txtrst}" | center
        fi
    else
        echo "${txtred}Update cancelled.${txtrst}" | center
    fi
}
# Function to upgrade packages
function upgrade_packages() {
    read -p "${txtylw}Are you sure you want to upgrade all packages? (y/n):
${txtrst}" confirm
    if [[ $confirm == "y" || $confirm == "Y" ]]; then
        if yum upgrade -y; then
            echo "${txtgrn}Packages upgraded successfully.${txtrst}" | center
        else
            echo "${txtred}Failed to upgrade packages. Please try again
later.${txtrst}" | center
        fi
    else
        echo "${txtred}Upgrade cancelled.${txtrst}" | center
    fi
}
# Function to clean cache
function clean cache() {
    read -p "${txtred}Are you sure you want to clean the cache? This action cannot
be undone. (y/n): \{txtrst\}" confirm
    if [[ $confirm == "y" || $confirm == "Y" ]]; then
        if yum clean all; then
            echo "${txtgrn}Cache cleaned successfully${txtrst}"
        else
            echo "${txtred}Failed to clean the cache. Please try again
later.${txtrst}"|center
        fi
    else
        echo "${txtred}Cache cleaning cancelled.${txtrst}"|center
    fi
}
function Exit() {
        echo "${txtgrn}Exiting the script ${txtrst}"|center
exit 0
}
# Main menu
```

```
-----${txtrst}"
echo "
                   ${bold} ${txtgrn}Package Management Menu ${txtrst}"|centerwide
-----${txtrst}"
echo "${txtblu}1. yum commands/options"|center
echo "2. Available packages" center
echo "3. Installed packages" | center
echo "4. Package Information" center
echo "5. Find package" | center
echo "6. Check yum history" | center
echo "7. Install package" | center
echo "8. Update package" | center
echo "9. Upgrade package" | center
echo "10. Clean cache ${txtrst}"|center
echo "${txtred}11. Exit ${txtrst}"|center
read -p "Enter your choice: " choice
# Switch condition to execute based on user's choice
case $choice in
   "1") display_yum_commands ;;
   "2") display_available_packages ;;
   "3") display_installed_packages ;;
   "4") display_package_info ;;
   "5") find_package ;;
   "6") check_yum_history ;;
   "7") install_package ;;
   "8") update packages ;;
   "9") upgrade_packages ;;
   "10") clean_cache ;;
   "11") Exit;;
       echo "${txtred}Invalid option. Please try again... ${txtrst}"|center
esac
```