Jesse Russell

Exercise 1: Step 4

Record your home directory: /home/jesserussell

Exercise 1: Step 5

```
CentOS Linux 7 (Core)
Kernel 3.10.0-957.el7.x86_64 on an x86_64

localhost login: jesserussell
Password:
Login incorrect

localhost login: jesserussell
Password:
Last failed login: Tue Oct  8 22:15:08 EDT 2019 on tty2
There was 1 failed login attempt since the last successful login.
Last login: Tue Oct  8 22:08:02 on tty2
[jesserussell@localhost ~]$ pwd
/home/jesserussell
[jesserussell@localhost ~]$ unalias ls
[jesserussell@localhost ~]$
```

unalias ls command

Exercise 1: Step 14

```
cups                        issue               postfix             target
cupshelpers                 issue.net           ppp                 tcsd.conf
dbus-1                      java                prelink.conf.d      terminfo
dconf                       jvm                 printcap            tmpfiles.d
default                     jvm-commmon         profile             trusted-key.key
depmod.d                    kdump.conf          profile.d           tuned
dhcp                        kernel              protocols           udev
DIR_COLORS                  krb5.conf           pulse               udisks2
DIR_COLORS.256color         krb5.conf.d         purple              unbound
DIR_COLORS.lightbgcolor     ksmtuned.conf       python              updatedb.conf
dleyna-server-service.conf  ld.so.cache         qemu-ga             UPower
dnsmasq.conf                ld.so.conf          qemu-kvm            usb_modeswitch.conf
dnsmasq.d                   ld.so.conf.d        radvd.conf          vconsole.conf
dracut.conf                 libaudit.conf       rc0.d               vimrc
dracut.conf.d               libblockdev         rc1.d               virc
drirc                       libibverbs.d        rc2.d               vmware-tools
e2fsck.conf                 libnl               rc3.d               wgetrc
egl                         libreport           rc4.d               wpa_supplicant
enscript.cfg                libuser.conf        rc5.d               wvdial.conf
environment                 libvirt             rc6.d               X11
ethertypes                  locale.conf         rc.d                xdg
exports                     localtime           rc.local            xinetd.d
exports.d                   login.defs          rdma                xml
favicon.png                 logrotate.conf      reader.conf.d       yum
fcoe                        logrotate.d         redhat-release      yum.conf
festival                    lsm                 request-key.conf    yum.repos.d
[jesserussell@localhost etc]$ cd
[jesserussell@localhost ~]$ pwd
/home/jesserussell
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Pictures/  Templates/
Desktop/   Downloads/  Music/     Public/    Videos/
[jesserussell@localhost ~]$ ls -F /usr/bin/uname
/usr/bin/uname*
[jesserussell@localhost ~]$ ls -F /etc/rc5.d/
K50netconsole@  S10network@
[jesserussell@localhost ~]$ _
```

ls -F /etc/rc5.d/ command

Exercise 1: Step 22

```
/home/jesserussell
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Pictures/  Templates/
Desktop/   Downloads/  Music/     Public/    Videos/
[jesserussell@localhost ~]$ ls -F /usr/bin/uname
/usr/bin/uname*
[jesserussell@localhost ~]$ ls -F /etc/rc5.d/
K50netconsole@  S10network@
[jesserussell@localhost ~]$ ls -a
.               .bash_logout   .cache     .dbus      Downloads    .ICEauthority  Music     .redhat
..              .bash_profile  .config    Desktop    .esd_auth    .local         Pictures  Templates
.bash_history   .bashrc        core.8498  Documents  fileA.txt    .mozilla       Public    Videos
[jesserussell@localhost ~]$ ls
core.8498  Desktop  Documents  Downloads  fileA.txt  Music  Pictures  Public  Templates  Videos
[jesserussell@localhost ~]$ ls -l
total 9004
-rw-------. 1 jesserussell jesserussell 25575424 Sep 24 13:15 core.8498
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Desktop
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Documents
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Downloads
-rw-rw-r--. 1 jesserussell jesserussell        0 Oct  1 17:11 fileA.txt
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Music
drwxr-xr-x. 2 jesserussell jesserussell     4096 Oct  1 18:11 Pictures
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Public
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Templates
drwxr-xr-x. 2 jesserussell jesserussell        6 Sep 11 22:18 Videos
[jesserussell@localhost ~]$ ls /
bin   dev  home  lib64  mnt   proc  run   srv   tmp  var
boot  etc  lib   media  opt   root  sbin  sys   usr
[jesserussell@localhost ~]$ ls -F /
bin@   dev/  home/  lib64@  mnt/   proc/  run/   srv/   tmp/  var/
boot/  etc/  lib@   media/  opt/   root/  sbin@  sys/   usr/
[jesserussell@localhost ~]$ cd /etc
[jesserussell@localhost etc]$ pwd
/etc
[jesserussell@localhost etc]$ cd /home/jesserussell
[jesserussell@localhost ~]$
```

I changed the directory back to my home directory with cd /home/jesserussell

Exercise 1: Step 32

```
[jesserussell@localhost etc]$ cd /home/jesserussell
[jesserussell@localhost ~]$ cd Downloads
[jesserussell@localhost Downloads]$ cd ~
[jesserussell@localhost ~]$ cd ..
[jesserussell@localhost home]$ pwd
/home
[jesserussell@localhost home]$ cd .
[jesserussell@localhost home]$ pwd
/home
[jesserussell@localhost home]$ cd $HOME
[jesserussell@localhost ~]$
```

I changed directory back to my home directory with cd $HOME

Exercise 1: Step 37

```
104  pwd
105  unalias ls
106  pwd
107  unalias -ls
108  unalias ls
109  pwd
110  unalias ls
111  ls
112  cd /etc
113  pwd
114  ls
115  cd
116  pwd
117  ls -F
118  ls -F /usr/bin/uname
119  ls -F /etc/rc5.d/
120  ls -a
121  ls
122  ls -l
123  ls /
124  ls -F /
125  cd /etc
126  pwd
127  cd /home/jesserussell
128  cd Downloads
129  cd ~
130  cd ..
131  pwd
132  cd .
133  pwd
134  cd $HOME
135  pwd
136  cd ../..
137  pwd
138  cd $HOME
139  history
jesserussell@localhost ~]$ _
```

This is my command history

Exercise 2A: Step 4

Record your home directory: /home/jesserussell

Exercise 2A: Step 6

```
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Pictures/  Templates/
Desktop/   Downloads/  Music/     Public/    Videos/
[jesserussell@localhost ~]$ mkdir /home/jesserussell/newdir
[jesserussell@localhost ~]$
```

I made a new directory called newdir

Exercise 2A: Step 10

```
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Pictures/  Templates/
Desktop/   Downloads/  Music/     Public/    Videos/
[jesserussell@localhost ~]$ mkdir /home/jesserussell/newdir
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  newdir/    Public/    Videos/
Desktop/   Downloads/  Music/     Pictures/  Templates/
[jesserussell@localhost ~]$ cd /home/jesserussell/newdir
[jesserussell@localhost newdir]$ ls -F
[jesserussell@localhost newdir]$ touch MyFile
[jesserussell@localhost newdir]$
```

I created a new file with the touch command in newdir.

Exercise 2A: Step 12

```
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Pictures/  Templates/
Desktop/   Downloads/  Music/     Public/    Videos/
[jesserussell@localhost ~]$ mkdir /home/jesserussell/newdir
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  newdir/    Public/    Videos/
Desktop/   Downloads/  Music/     Pictures/  Templates/
[jesserussell@localhost ~]$ cd /home/jesserussell/newdir
[jesserussell@localhost newdir]$ ls -F
[jesserussell@localhost newdir]$ touch MyFile
[jesserussell@localhost newdir]$ ls -F
MyFile
[jesserussell@localhost newdir]$ ls -F /home/jesserussell/newdir
MyFile
[jesserussell@localhost newdir]$ _
```

The file I just created is in the new directory, found using an absolute reference.

Exercise 2A: Step 15

```
[jesserussell@localhost newdir]$ cd ..
[jesserussell@localhost ~]$ pwd
/home/jesserussell
[jesserussell@localhost ~]$ mkdir Stuff/MoreStuff
mkdir: cannot create directory 'Stuff/MoreStuff': No such file or directory
[jesserussell@localhost ~]$
```

The command did not work because there must be a parent directory

Exercise 2A: Step 17

```
[jesserussell@localhost ~]$ ls -RF /stuff
/stuff:
morestuff/

/stuff/morestuff:
[jesserussell@localhost ~]$
```

The stuff directory is listed and so is the morestuff subdirectory

Exercise 2A: Step 21

```
[jesserussell@localhost ~]$ sudo rmdir /stuff/morestuff
[jesserussell@localhost ~]$ rmdir /stuff
rmdir: failed to remove '/stuff': Permission denied
[jesserussell@localhost ~]$ sudo rmdir /stuff
[jesserussell@localhost ~]$ rmdir /home/jesserussell/newdir
rmdir: failed to remove '/home/jesserussell/newdir': Directory not empty
[jesserussell@localhost ~]$ _
```

The directory could not be removed because it needs to be empty

Exercise 2A: Step 22

```
[jesserussell@localhost ~]$ rm -iR /home/jesserussell/newdir/
rm: descend into directory '/home/jesserussell/newdir/'? y
rm: remove regular empty file '/home/jesserussell/newdir/MyFile'? y
rm: remove directory '/home/jesserussell/newdir/'? y
[jesserussell@localhost ~]$ _
```

I erased newdir and all of its contents

Exercise 2A: Step 23

The newdir directory is gone.

Exercise 2B: Step 4

Record your home directory: /home/jesserussell

Exercise 2B: Step 7

```
CentOS Linux 7 (Core)
Kernel 3.10.0-957.el7.x86_64 on an x86_64

localhost login: jesserussell
Password:
Last login: Tue Oct  8 22:15:16 on tty2
[jesserussell@localhost ~]$ pwd
/home/jesserussell
[jesserussell@localhost ~]$ touch chores
[jesserussell@localhost ~]$ ls chores
chores
[jesserussell@localhost ~]$ cp chores chores.bck
[jesserussell@localhost ~]$ _
```

I copied the file and renamed it to chores.bck

Exercise 2B: Step 13

```
[jesserussell@localhost ~]$ mkdir Todo
[jesserussell@localhost ~]$ ls -F
chores       core.8498  Documents/  fileA.txt  Pictures/  Templates/  Videos/
chores.bck  Desktop/   Downloads/  Music/     Public/    Todo/
[jesserussell@localhost ~]$ cp chores /home/jesserussell/Todo/
[jesserussell@localhost ~]$ ls Todo
chores
[jesserussell@localhost ~]$ cp chores Todo/done
[jesserussell@localhost ~]$ _
```

I copied the file to Todo and renamed it to done

Exercise 2B: Step 18

```
[jesserussell@localhost ~]$ rm -Ri NewTodo
rm: descend into directory 'NewTodo'? y
rm: remove regular empty file 'NewTodo/chores'? y
rm: remove regular empty file 'NewTodo/done'? y
rm: remove directory 'NewTodo'? y
[jesserussell@localhost ~]$
```

I removed NewTodo and all of it's contents.

Exercise 2B: Step 20

```
[jesserussell@localhost ~]$ rm -i chores*
rm: remove regular empty file 'chores'? y
rm: remove regular empty file 'chores.bck'? y
[jesserussell@localhost ~]$
```

I removed the chores files I created earlier

Exercise 2C: Step 4

Record your home directory: /home/jesserussell

Exercise 2C: Step 5

```
[jesserussell@localhost ~]$ pwd
/home/jesserussell
[jesserussell@localhost ~]$ touch math
[jesserussell@localhost ~]$ _
```

I created a new file called math in my home directory

Exercise 2C: Step 11

```
[jesserussell@localhost ~]$ ls -F
core.8498  Documents/  fileA.txt  Music/     Public/     Videos/
Desktop/   Downloads/  gym        Pictures/  Templates/
[jesserussell@localhost ~]$ mkdir school
[jesserussell@localhost ~]$ _
```

I created a new directory called school

Exercise 2C: Step 14

```
[jesserussell@localhost ~]$ ls -F school
gym
[jesserussell@localhost ~]$ _
```

The directory, school, contains the gym file

Exercise 2C: Step 18

```
[jesserussell@localhost ~]$ touch lunch
[jesserussell@localhost ~]$ mv lunch school/
[jesserussell@localhost ~]$ touch reading
[jesserussell@localhost ~]$ mv reading school/history
[jesserussell@localhost ~]$
```

I created reading and moved it to school. I also renamed it to history.

Exercise 2C: Step 20

```
[jesserussell@localhost ~]$ ls /home/jesserussell/school
gym   history   lunch
[jesserussell@localhost ~]$ mv school college
[jesserussell@localhost ~]$ _
```

I reamed the school directory to college

Exercise 2C: Step 23

```
[jesserussell@localhost ~]$ rm -Ri college
rm: descend into directory 'college'? y
rm: remove regular empty file 'college/gym'? y
rm: remove regular empty file 'college/lunch'? y
rm: remove regular empty file 'college/history'? y
rm: remove directory 'college'? y
[jesserussell@localhost ~]$
```

I removed the college directory and all of its contents

Exercise 2D: Step 4

Record your home directory: /home/jesserussell

Exercise 2D: Step 7

```
[jesserussell@localhost ~]$ touch fall.dat
[jesserussell@localhost ~]$ touch fell.dat
[jesserussell@localhost ~]$ touch fill.dat full.dat
[jesserussell@localhost ~]$
```

I created two files called fill.dat and full.dat

Exercise 2D: Step 11

```
[jesserussell@localhost ~]$ ls f*.dat
fall.dat   fell.dat   fill.dat   full.dat
[jesserussell@localhost ~]$ ls f?ll.dat
fall.dat   fell.dat   fill.dat   full.dat
[jesserussell@localhost ~]$ ls f[a-z]ll.dat
fall.dat   fell.dat   fill.dat   full.dat
[jesserussell@localhost ~]$
```

These are 4 ways to see the files I just created

Exercise 2D: Step 15

```
[jesserussell@localhost ~]$ rm -i f[aeiu]ll.dat
rm: remove regular empty file 'fall.dat'? y
rm: remove regular empty file 'fell.dat'? y
rm: remove regular empty file 'fill.dat'? y
rm: remove regular empty file 'full.dat'? y
[jesserussell@localhost ~]$
```

The four files I just created were deleted using rm -I f[aeiu]ll.dat

Exercise 3: Step 4


```
root@localhost ~]# ip -s link
: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen
000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    RX: bytes  packets  errors  dropped overrun mcast
    27840      320      0       0       0       0
    TX: bytes  packets  errors  dropped carrier collsns
    27840      320      0       0       0       0
: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP mode DEFAULT group de
ault qlen 1000
    link/ether 00:0c:29:b2:08:56 brd ff:ff:ff:ff:ff:ff
    RX: bytes  packets  errors  dropped overrun mcast
    6660       111      0       0       0       0
    TX: bytes  packets  errors  dropped carrier collsns
    0          0        0       0       0       0
: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode DEFAULT group
efault qlen 1000
    link/ether 52:54:00:14:b2:49 brd ff:ff:ff:ff:ff:ff
    RX: bytes  packets  errors  dropped overrun mcast
    0          0        0       0       0       0
    TX: bytes  packets  errors  dropped carrier collsns
    0          0        0       0       0       0
: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN mode DEFAULT
group default qlen 1000
    link/ether 52:54:00:14:b2:49 brd ff:ff:ff:ff:ff:ff
    RX: bytes  packets  errors  dropped overrun mcast
    0          0        0       0       0       0
    TX: bytes  packets  errors  dropped carrier collsns
    0          0        0       0       0       0
root@localhost ~]#
```

The result of the ip -s link command

Exercise 3: Step 6


```
yum-plugin-fastestmirror.noarch            1.1.31-52.el7            base
yum-plugin-filter-data.noarch              1.1.31-52.el7            base
yum-plugin-fs-snapshot.noarch              1.1.31-52.el7            base
yum-plugin-keys.noarch                     1.1.31-52.el7            base
yum-plugin-list-data.noarch                1.1.31-52.el7            base
yum-plugin-local.noarch                    1.1.31-52.el7            base
yum-plugin-merge-conf.noarch               1.1.31-52.el7            base
yum-plugin-ovl.noarch                      1.1.31-52.el7            base
yum-plugin-post-transaction-actions.noarch 1.1.31-52.el7            base
yum-plugin-pre-transaction-actions.noarch  1.1.31-52.el7            base
yum-plugin-priorities.noarch               1.1.31-52.el7            base
yum-plugin-protectbase.noarch              1.1.31-52.el7            base
yum-plugin-ps.noarch                       1.1.31-52.el7            base
yum-plugin-remove-with-leaves.noarch       1.1.31-52.el7            base
yum-plugin-rpm-warm-cache.noarch           1.1.31-52.el7            base
yum-plugin-show-leaves.noarch              1.1.31-52.el7            base
yum-plugin-tmprepo.noarch                  1.1.31-52.el7            base
yum-plugin-tsflags.noarch                  1.1.31-52.el7            base
yum-plugin-upgrade-helper.noarch           1.1.31-52.el7            base
yum-plugin-verify.noarch                   1.1.31-52.el7            base
yum-plugin-versionlock.noarch              1.1.31-52.el7            base
yum-rhn-plugin.noarch                      2.0.1-10.el7             base
yum-updateonboot.noarch                    1.1.31-52.el7            base
yum-utils.noarch                           1.1.31-52.el7            base
zlib.i686                                  1.2.7-18.el7             base
zlib-devel.i686                            1.2.7-18.el7             base
zlib-devel.x86_64                          1.2.7-18.el7             base
zlib-static.i686                           1.2.7-18.el7             base
zlib-static.x86_64                         1.2.7-18.el7             base
zsh.x86_64                                 5.0.2-33.el7             base
zsh-html.x86_64                            5.0.2-33.el7             base
zziplib.i686                               0.13.62-11.el7           base
zziplib.x86_64                             0.13.62-11.el7           base
zziplib-devel.i686                         0.13.62-11.el7           base
zziplib-devel.x86_64                       0.13.62-11.el7           base
zziplib-utils.x86_64                       0.13.62-11.el7           base
[jesserussell@localhost ~]$
```

Result of the yum list all command

Exercise 3: Step 7

Look at the first column, bottom of the yum list, and record the package name you find there:

zziplib-utils.x86_64

Exercise 3: Step 10

```
[root@localhost ~]# yum list emacs
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: repo.miserver.it.umich.edu
 * extras: repo.miserver.it.umich.edu
 * updates: repo.miserver.it.umich.edu
Installed Packages
emacs.x86_64                                    1:24.3-22.el7
[root@localhost ~]# _
```

Emacs is installed, found using the yum list emacs command

Exercise 3: Step 14

```
            : This package provides an emacs binary with support for X windows.

[root@localhost ~]# yum remove emacs
Loaded plugins: fastestmirror, langpacks
Resolving Dependencies
--> Running transaction check
---> Package emacs.x86_64 1:24.3-22.el7 will be erased
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package          Arch            Version            Repository          Size
================================================================================
Removing:
 emacs            x86_64          1:24.3-22.el7      @base               14 M

Transaction Summary
================================================================================
Remove  1 Package

Installed size: 14 M
Is this ok [y/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Erasing    : 1:emacs-24.3-22.el7.x86_64                                1/1
  Verifying  : 1:emacs-24.3-22.el7.x86_64                                1/1

Removed:
  emacs.x86_64 1:24.3-22.el7

Complete!
[root@localhost ~]# _
```

The emacs package was successfully removed, using the yum remove emacs.

Exercise 3: Step 18

```
[root@localhost ~]# yum repolist
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: repo.miserver.it.umich.edu
 * extras: repo.miserver.it.umich.edu
 * updates: repo.miserver.it.umich.edu
repo id                               repo name
base/7/x86_64                         CentOS-7 - Base
extras/7/x86_64                       CentOS-7 - Extras
updates/7/x86_64                      CentOS-7 - Updates
repolist: 10,733
[root@localhost ~]# ls /etc/yum.repos.d/*.repo
/etc/yum.repos.d/CentOS-Base.repo        /etc/yum.repos.d/CentOS-Media.repo
/etc/yum.repos.d/CentOS-CR.repo          /etc/yum.repos.d/CentOS-Sources.repo
/etc/yum.repos.d/CentOS-Debuginfo.repo   /etc/yum.repos.d/CentOS-Vault.repo
/etc/yum.repos.d/CentOS-fasttrack.repo
[root@localhost ~]#
```

The repository list found using the yum repolist and ls /etc/yum.repos.d/*.repo commands