Lab One

Typing and entering Is will display all files and directories contained within your current working directory:

ls

Your default current working directory in this lab environment, the /home/project directory, is empty. Thus entering Is into the command line will not return anything yet.

```
theia@theia-duongnhattha:/home/project$ ls
theia@theia-duongnhattha:/home/project$ ls /
      dev home lib32 libx32
                               mnt
                                     proc
                                                          var
boot etc lib
                 lib64 media
                                opt root sbin
                                                sys
                                                     usr
theia@theia-duongnhattha:/home/project$ ls /bin
              dd
bash
                             lessfile
                                            ps
                                                        uname
              df
bunzip2
                             lesskey
                                           pwd
                                                       uncompress
bzcat
              dir
                             lesspipe
                                           rbash
                                                       vdir
bzcmp
              dmesg
                                            readlink
                                                       wdctl
              dnsdomainname login
bzdiff
                                            rm
                                                       which
              domainname
                                            rmdir
                                                       vpdomainname
bzegrep
bzexe
              echo
                             lsblk
                                                       zcat
                                            rnano
                             mkdir
bzfgrep
              egrep
                                            run-parts
                                                       zcmp
bzgrep
              false
                            mknod
                                            sed
                                                       zdiff
bzip2
              fgrep
                            mktemp
                                                       zegrep
                                           sh
                                            sh.distrib zfgrep
bzip2recover findmnt
                             more
bzless
             fuser
                                            sleep
                                                       zforce
                             mount
bzmore
                             mountpoint
              grep
                                            stty
                                                       zgrep
cat
              gunzip
                                                        zless
                             mν
chgrp
              gzexe
                             nano
                                            sync
                                                        zmore
chmod
              gzip
                             netstat
                                            tar
                                                        znew
chown
              hostname
                             nisdomainname tempfile
ср
              kill
                             pidof
                                            touch
dash
              less
                                            true
date
              lessecho
theia@theia-duongnhattha:~$ cd ~
theia@theia-duongnhattha:~$
theia@theia-duongnhattha:/bin$ cd ../home/theia
theia@theia-duongnhattha:~$
theia@theia-duongnhattha:/$ cd bin theia@theia-duongnhattha:/home$ cd /
theia@theia-duongnhattha:/bin$ theia@theia-duongnhattha:/$
theia@theia-duongnhattha:~$ cd ...
theia@theia-duongnhattha:/home$
theia@theia-duongnhattha:/home/project$ cd ~
theia@theia-duongnhattha:~$
theia@theia-duongnhattha:~$ cd ../project
theia@theia-duongnhattha:/home/project$
```

```
theia@theia-duongnhattha:~$ cd ../project
theia@theia-duongnhattha:/home/project$ cd ../project
theia@theia-duongnhattha:/$ ls /home/
project/ theia/
theia@theia-duongnhattha:/$ ls /home/theia/
theia@theia-duongnhattha:/$ cd /b
bin/ boot/
                                     theia@theia-duongnhattha:/$ cd /b
theia@theia-duongnhattha:/$ cd /bin/ bin/ boot/
theia@theia-duongnhattha:/$ cd /bin/
theia@theia-duongnhattha:/$ ls /home/theia/dsdriver/b
bin/ bin32/ bnd/
theia@theia-duongnhattha:/$ ls /home/theia/dsdriver/bin
theia@theia-duongnhattha:/$ cd /b theia@theia-duongnhattha:~$ pwd
bin/ boot/
                                 /home/theia
theia@theia-duongnhattha:/$ cd /b theia@theia-duongnhattha:~$
theia@theia-duongnhattha:/$ cd ~
theia@theia-duongnhattha:~$
theia@theia-duongnhattha:/$ ls
bin dev home lib32 libx32 mnt proc run
                                               srv
                                                         var
boot etc lib
                lib64 media
                               opt root sbin sys usr
theia@theia-duongnhattha:/$
theia@theia-duongnhattha:/$ cd /b
bin/ boot/
theia@theia-duongnhattha:/$ cd ~
theia@theia-duongnhattha:~$
```

```
theia@theia-duongnhattha:~$ sudo apt upgrade nano
Reading package lists... Done
Building dependency tree
Reading state information... Done
nano is already the newest version (2.9.3-2).
Calculating upgrade... Done
The following NEW packages will be installed:
  gcc-13-base
The following packages will be upgraded:
  apache2 apache2-bin apache2-data apache2-utils apt apt-transport-https
  binutils binutils-common binutils-x86-64-linux-gnu ca-certificates
  ca-certificates-java containerd curl dart distro-info-data docker.io
  dotnet-host gcc-11-base git git-man iptables krb5-locales lib32atomic1
  lib32gcc-s1 lib32gcc1 lib32gomp1 lib32itm1 lib32quadmath0 lib32stdc++6
  libapparmor1 libapt-inst2.0 libapt-pkg5.0 libatomic1 libbinutils
  libcc1-0 libcups2 libcurl3-gnutls libcurl4 libgcc-s1 libgcc1 libgomp1
  libgssapi-krb5-2 libip4tc0 libip6tc0 libiptc0 libitm1 libk5crypto3
  libkrb5-3 libkrb5support0 liblsan0 libncurses5 libncurses5-dev
  libncursesw5 libobjc4 libperl5.26 libpq-dev libpq5 libpython2.7
  libpython2.7-dev libpython2.7-minimal libpython2.7-stdlib libpython3.6
  libpython3.6-dev libpython3.6-minimal libpython3.6-stdlib libquadmath0
  libruby2.5 libssl-dev libssl1.0.0 libssl1.1 libstdc++6 libsystemd0
  libtinfo-dev libtinfo5 libtsan0 libudev1 libunwind8 libx32atomic1
  libx32gcc-s1 libx32gcc1 libx32gomp1 libx32itm1 libx32quadmath0
  libx32stdc++6 libxstream-java libxtables12 libyaml-snake-java
  linux-libc-dev mysql-client mysql-client-5.7 mysql-client-core-5.7
  ncurses-base ncurses-bin openjdk-11-jre-headless
theia@theia-duongnhattha:~$ sudo apt update
Get:1 https://packages.microsoft.com/ubuntu/18.04/prod bionic InRelease [3
,617 B]
Ign:2 https://storage.googleapis.com/download.dartlang.org/linux/debian st
able InRelease
Ign:4 https://storage.googleapis.com/download.dartlang.org/linux/debian te
sting InRelease
Ign:5 https://storage.googleapis.com/download.dartlang.org/linux/debian un
stable InRelease
Get:6 https://storage.googleapis.com/download.dartlang.org/linux/debian st
able Release [944 B]
Get:7 https://storage.googleapis.com/download.dartlang.org/linux/debian te
sting Release [940 B]
Get:8 https://storage.googleapis.com/download.dartlang.org/linux/debian un
stable Release [945 B]
Get:9 https://packages.microsoft.com/ubuntu/18.04/prod bionic/main all Pac
kages [2,182 B]
Get:10 http://ppa.launchpad.net/ondrej/php/ubuntu bionic InRelease [20.8 k
Get:11 https://packages.microsoft.com/ubuntu/18.04/prod bionic/main amd64
Packages [259 kB]
Get:12 https://storage.googleapis.com/download.dartlang.org/linux/debian s
table Release.gpg [819 B]
Get:13 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 k
```

```
theia@theia-duongnhattha:~$ sudo apt install vim
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libgpm2 vim-common vim-runtime xxd
Suggested packages:
  gpm ctags vim-doc vim-scripts
The following NEW packages will be installed:
  libgpm2 vim vim-common vim-runtime xxd
0 upgraded, 5 newly installed, 0 to remove and 0 not upgraded.
Need to get 6,735 kB of archives.
After this operation, 32.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
0% [Waiting for headers]
encramencia adonginiacena. - p ca / nome/projece
theia@theia-duongnhattha:/home/project$ nano hello_world.txt
theia@theia-duongnhattha:/home/project$ [
theia@theia-duongnhattha:~$ cd /home/project
theia@theia-duongnhattha:/home/project$ [
theia@theia-duongnhattha:/home/project$ cat hello_world.txt
Hello world!
This is the second line of my first-ever text file created with nano.
theia@theia-duongnhattha:/home/project$
```

```
help.txt
              For Vim version 8.0. Last change: 2017 Oct 28
                       VIM - main help file
                                                                       k
      Move around: Use the cursor keys, or "h" to go left,
 1
                    "j" to go down, "k" to go up, "l" to go right.
                   Use ":q<Enter>".
Close this window:
   Get out of Vim: Use ":qa!<Enter>" (careful, all changes are lost!).
Jump to a subject: Position the cursor on a tag (e.g. bars) and hit CTR
L-].
  With the mouse: ":set mouse=a" to enable the mouse (in xterm or GUI).
                   Double-click the left mouse button on a tag, e.g. bar
       Jump back: Type CTRL-T or CTRL-O. Repeat to go further back.
Get specific help: It is possible to go directly to whatever you want hel
                   on, by giving an argument to the :help command.
help.txt [Help][RO]
                                                       0,0-1
[No Name]
                                                                      A11
"help.txt" [readonly] 228L, 8578C
```

Hello World! The is the second line.

-- INSERT --

3,1 All

Hello world!

This is the second line of my first-ever text file created with nano.

This is line three of my new file.

theia@theia-duongnhattha:/home/project\$ vim done.txt theia@theia-duongnhattha:/home/project\$ bash done.txt

I am done with the lab!

theia@theia-duongnhattha:/home/project\$