Report

Task #1:

Absolute path to the include directory is **/usr/include**

Task #2:

Relative path from directory **/dev** to file **/bin/ls** is **../bin/ls**

Task #3:

Answers to questions for task 3:

* 1. The user/owner can read and write, groups can only read, and others can only read.
  2. I (jpearl2, the user) am the owner of the file
  3. The group associated with the file is students
  4. I am in the students group
  5. The “students” group is the only group I am in

Commands used to change permissions on ~/foo:

1. Owner: execution only command: **chmod u-rw+x foo**
2. Group: can only write: **chmod g-r+w foo**
3. Others: read and execute: **chmod o+x foo**

Command used to delete foo: **rm foo**

Change permission to allow owner to write in order to delete foo: **chmod u+w foo**

Task #4:

Meanings of options:

**-a**: aka --all which means do not ignore entries starting with .

**-l**: use a long listing format

**-R**: --recursive, list subdirectories recursively

ls vs. ls -a: **ls -a** lists names of all directories in **ls** (names of directories without the use of a “.” Before the name) **as well as** all directories with a “.” preceding its name.

NAME for **time entities**: time – get time in seconds

NAME for **man**: an interface to the system reference manuals

Task #5:

Result of **pwd** command: **/mnt/linuxlab/home/jpearl2**

Command to go one level up: **cd ..**

Result of **pwd** after going one level up: **/mnt/linuxlab/home**

Permissions on home directory: **rwx**

Task #6:

File type of /bin/bash: **-rwxr-xr-x**

**ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, BuildID(shal)=31c321f9f0c1f86a379f7efaaeb75f707998f27f**

File type of foo: **empty**

File type of ~/.bash\_history: **ASCII text**

File type of **/usr/local**: **directory**

Task #7:

Command used for head to view first 5 lines of file: **head -5 ~/.bash\_history**

Command used for tail to view last 10 lines of file: **tail -10 ~/.bash\_history**

Task #8:

Command to copy: **cp ~/.bash\_history ~/dotbashhistory**

Permissions needed to copy: need to be able to read the original file and be able to write in the directory of the new file in order to copy an original file to a new file

How system reacted to trying exact copy command again: nothing happened

Permissions and date of original (~/.bash\_history): user: read and write, Feb 7th 08:34

Permissions and date of copy (~/dotbashhistory): user: read and write, Feb 7th 12:26

The original and copy have same permissions but differ in date time.

Command to ensure the original and copy have same date and permissions: **cp -a ~/.bash\_history ~/dotbashhistory**

Task #9:

Command used to rename ~/dotbashhistory file: **mv ~/dotbashhistory ~/dotbashhistory.old**

Task #10:

Command to remove the file: **rm** **~/dotbashhistory.old**

Task #11:

Create ~/Foo: **mkdir ~/Foo**

Permissions in directory: Text

Description automatically generated

Make directory Bar in Foo: **while** **in the Foo directory, I wrote mkdir Bar**

Task #12:

What happened when tried to remove ~/Foo: would not delete because directory was not empty

What I would do to remove ~/Foo: **rmdir /Bar ~/Foo**

Invoked rm to remove ~/Foo: **rm -f -r ~/Foo**