

Assignment 2: list contents of the c s 132 course directory; UNIX commands

You began your UNIX journey by logging into your account for the Linux Lab to claim, or reclaim, in order to maintain personal access for the semester. Now, you are to explore the file system of the Linux Lab and the contents of the course directory named c s 132.

It is also time for you to practice using your account to create directories and files while remotely logged into one of the Linux Lab machines. The steps of SSH protocol to remotely log into the Department of Computer Science's *eniac* server and the Linux Lab machines are outlined previously in *Assignment 1: Log in to claim or reclaim your Linux Lab account*.

Instructions

If you make a mistake and need to delete a file or directory before starting over for any part of the assignment, you need to know two commands:

- use the `rm` command for files. Read the man page for it first!
- use the `rmdir` command for empty directories. If a directory is not empty, it will not be deleted. You must empty it first.

To delete a directory and all of its contents, you could use the `rm` command with the recursive option `-r`, but it is risky business, so use with caution!

- Part 1: Your first task is use the `mkdir` command to create a directory in your home directory named `assignment3`. Read the man page for how to use the `mkdir` command if you need help.
- Part 2: There is a UNIX command that displays a calendar. It is named `cal`. The `cal` command can display the current month, or three months, or the whole year, as well as many other possibilities.

Read the man page for it. As practice, figure out how to display 10 months, starting with the current month.

Then use the `cal` command with the appropriate options and use I/O shell redirection to do the following tasks:

- Create a file in your `assignment3` directory named `fall_2020_term` that contains the calendar for the period from August 2020 through December 2020.

- Create a file in the `assignment3` directory named `spring_2021_term` that contains the calendar for the period from January 2021 through May 2021.
 - Create a file in the `assignment3` directory named `academic_calendar` that contains the calendar for the period from August 2020 through May 2021.
- Part 3: There is a UNIX command called `date` to display today's date and time. Read the man page for more details. Type the `date` command and use I/O redirection to put its output into a newly created file into your `assignment3` directory called `part3`.

It is well worth the effort to spend some time exploring everything in the `cs132` course directory before proceeding to Part 4. The absolute pathname for that directory is

`/data/biocs/b/student.accounts/cs132`

- Part 4: The `cs132` course directory located on the Linux Lab contains several miscellaneous files in a subdirectory called `misc_files`. The absolute pathname of this directory is

`/data/biocs/b/student.accounts/cs132/data/misc_files`

The UNIX command named `cat` displays the contents of the file, or files, given to it as argument(s). Read the man page for it. Practice this command by displaying the contents of some files located in the `cs132` course sub-directory `misc_files`.

Then use the `cat` command and I/O shell redirection to complete the following tasks in sequential order:

1. Create of a file in your `assignment3` directory named `part4` that contains the contents of the file named `jokes`.
2. Append the contents of the file named `english` into the same `part4` file.
3. Append the contents of the file named `exam` into the same `part4` file.

In total, your `assignment3` directory should contain five files:

- `fall_2020_term`
- `spring_2021_term`
- `academic_calendar`
- `part3`
- `part4`

Grading Rubric

This assignment is graded on a 100 point scale. Each part is worth 25% of the grade.

Submitting Requirements

- **Due date:** Sunday September 27, 11:59PM Eastern Standard Time
- Late submissions will be docked total points at the rate of 1 point for every day it is late. No submissions will be accepted after Sunday October 4, 11:59PM Eastern Standard Time.
- Accepted formats:
 - screenshot image(s) in JPEG, PNG, or TIF of all tasks steps and their outputs.
 - A zip archive file containing the assignment3 directory and the files of Part 2, Part 3, and Part 4.

The steps to create a zip archive and to secure-copy files is outlined in the tutorials called 'zip command for beginners' and 'scp command for beginners', that are located in the Course Materials section on the course Blackboard.