Standard Setup for each Lab Session

Every lab session you will likely be copying files to get ready for the lab problems. The process is the same each week, you would copy the directory `~csci131/labs/labN` to your `~/labs` directory, and then change into your new `~/labs/labN` directory before continuing. Open a `labN.txt` file where you will write your discussion log. For example, for lab 3, use these commands:

```
cp -r ~csci131/labs/lab3 ~/labs    # cp means copy, -r means recursive
cd ~/labs/lab3                     # cd means change directory
```

Note: In the bash terminal window, # starts a comment, just like // in java!

Be sure to create a new file, **lab3.txt** file and write (with appropriate substitution):

```
Name: Ada Lovelace    Write your name
Email: ada@holycross.edu    Substitute your email address
Assignment: Lab C    or whatever lab it is

Discussion Log:
Sat next to ... and we discussed ... fill in as appropriate
```

The Submit Program

Project Submissions: This semester you will be submitting your projects electronically. In order to do so: (1) you must type the full pathname of the submit program; (2) you must submit from inside a directory where your files are located; and (3) the name of the project being submitted must be made clear, either by ensuring your current directory has the same name as the project, or by specifying the project name on the command-line. The submit program knows what files to retrieve. For example, when you are submitting *project0*, the submit program automatically retrieves `Art.java` and `collaboration.txt` as part of the *project0* "project".

For example, to submit project zero, change to your `~/projects/project0` directory and type:
```
~csci131/bin/submit
```

In the unlikely event that your project files are elsewhere (i.e. not in the project0 folder), change to the folder that contains your project zero files and type:
```
/home/fac/csci131/bin/submit  project0
```
Note: ~csci131/bin/submit and /home/fac/csci131/bin/submit are both valid pathnames for the submit application.

Information *similar to* the following would be displayed when submitting project zero:
```
Preparing to submit files on Wed Aug 30 07:28:19 2023.
Course: csci131
Assignment: project0

This submission includes 2 files:
  1. Art.java            2530 bytes (Your source code, required, last modified 13 seconds ago)
  2. collaboration.txt   15 bytes (Your collaboration log, required, last modified 71 seconds ago)

SUCCESS: Submitted 2 new files for project0.
  You can review this submission, and all previous submissions, by going
  to ~/submissions-csci131-Fall-2023 in your home directory.
Note: This message has been sent to your instructor.
```

Lab Submissions: Our lab assignments will also be submitted electronically and you will use the same instructions for submitting labs. Additionally, labs are "auto-graded" and so the output for lab submissions will include messages and information about the correctness of your assignment immediately. Please read the output carefully.

Late Submissions for Lab Assignments: If you have missed the deadline for a project (there are no late options for lab submissions), you may submit a *late* project by typing the same command you would to submit on time, however if you choose to submit late, a 'late.log' file will be added to your submission directory saying exactly how late the submission is.

Command Line Options for the Submit Program: The --help option provides the user with helpful information about using the submit program and information about other options. Type:

        ~csci131/bin/submit --help

The --info option provides the user with helpful information about a specific assignment. Type:

        ~csci131/bin/submit --info *project_name*

For example, if you type ~csci131/bin/submit --info project0 something *similar to* the following would be displayed:

```
Project name: project0
   Deadline: 21:00 9/7/2023
   Late deadline: 21:00 9/13/2023
   Required files:
       Art.java (Your source code)
       collaboration.txt (Your collaboration log)
   20 extra files accepted (none are required) on the command line
   Maximum size of any submitted file: 102400 bytes
Note: This message has been sent to your instructor.
```

The --list option lists *submit information* for the current semester. This option is helpful if you do not know the project name or have forgotten the due dates. If the following is command is typed:

        ~csci131/bin/submit --list   "public" information *similar to* the following would be displayed:

```
Information for csci131, Techniques of Programming, Fall 2023
Instructor: Kevin Walsh and Laurie Smith King
Projects:
  lab1        due 23:59 9/5/2023
  lab2        due 23:59 9/12/2023
  lab3        due 23:59 9/19/2023
  project0    due 21:00 9/7/2023   (accepted late till 21:00 9/13/2023)
  project1    due 21:00 9/26/2023  (accepted late till 21:00 10/2/2023)
  project2    due 21:00 10/17/2023 (accepted late till 21:00 10/23/2023)
Use "submit --info [Project_Name]" for details on a specific project.
Note: This message has been sent to your instructor
```

Submitting Additional Files: The submit program allows a student to submit extra files. Simply list the extra files to submit, after the project name. For example, to submit a file named extra.txt along with the required files for project zero, type:

        ~csci131/bin/submit extra.txt

This will copy the two required *project 0* files, Art.java and collaboration.txt, as well as the additional file, extra.txt into the instructor's directory.