EECS 2031 - Lab 4

**Description**

This lab is continuation of Lab 3. Consider the Lab 3 description and requirements, add the new requirements.

What to do

* Use your Lab 3 code
* Rename lab3.sh to lab4.sh. If you have not done Lab 3, you can use posted solution in Moodle.
* Add the new requirements into lab4.sh using your favorite editor so that it implements the functionality described in the Requirements section below.
* Test that your shell script correctly implements the required functionality.
* Submit your solution electronically *before* midnight on Tuesday using the command
* submit 2031 Lab4 lab4.sh
* You may submit your solution more than once. Additional documentation about the submit command can be viewed by typing man submit.

General Requirements

* Your script should be run under Born Shell.
* Enter your first name + last name + student number as a comment at the top of the script.
* Enter comments for all parts of your script to explain the functionality of the code.
* Only use covered commands in lectures. You may need to check the “man” page of covered commands.
* Remove any temporary file you may have generated before exit.
* In case of normal exit return 0, otherwise return 1

Specific Requirements

We want to implement a few more commands. Here is the list of new commands:

ci: gives the name of all courses plus number of credits

sl: gives a unique list of all students registered in all courses

sc: gives the total number of unique students registered in all courses

cc: gives the total numbers of found course files.

h or help: prints the current message.

Here is sample run of the new commands:

**% lab4.sh ~**

**command: ci**

Found courses are:

Operating Systems has 3 credits.

Java Programming has 4 credits.

**command: sl**

Here is the unique list of student numbers in all courses:

123456

243567

346519

**command: sc**

There are 3 registered students in all courses.

**command: cc**

There are 2 course files.

**command: h**

l or list: lists found courses

ci: gives the name of all courses plus number of credits

sl: gives a unique list of all students registered in all courses

sc: gives the total number of unique students registered in all courses

cc: gives the total numbers of found course files.

h or help: prints the current message.

q or quit: exits from the script

**command: q**

goodbye

**%**