

CSC 2500: Unix Programming Lab

Lab 04 – Writing Shell Scripts

General Instructions

Using your book and previous lecture material, fill out this assignment sheet. **Use red text to signify your answers.** This assignment corresponds with chapters 8-9 of your textbook. You should utilize online resources to answer these questions as well.

Submission Instructions

To submit, **change the name in the header** and save this document as a PDF. Attach your PDF document and the 2 shell scripts to the iLearn dropbox.

Lab Questions

1. Write a shell script called `cptobak` that copies the file named by its first argument to a file with the same name with the filename extension of `.bak`. Thus, if you call the script with the argument `first` (and a file named `first` exists in the working directory), after the script runs you would have two files: `first` and `firstfirst.bak`.

done

2. Answer/Do the following:
 - a. The `PATH` (Sobell, page 318) keyword variable specifies the directories in the order bash should search them when it searches for a script or program you run from the command line. What is the value of your `PATH` variable?

`/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin`

- b. Append the absolute pathname of the `bin` directory that is a subdirectory of your `home` directory to the `PATH` variable. What does this change allow you to do more easily?

`/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin`
`/usr/local/sbin:/usr/local/bin`

3. The `date` (Sobell, page 62) utility displays the date and time. Write and execute a shell script called `mine` that displays the date and time, the name of your home directory, and the value of your `PATH` variable.

done

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4. Answer/Do the following:ls

a. Create an alias that translates the command ls into ls -l.

b. Give an ls command that does not use the alias.

c. Remove the alias.

done

5. Where would you define an alias so that it is available each time you log in?

In bash or tcsh