CS35L Software Construction Laboratory

Lab 5 : Sneha Shankar

Week 1; Lecture 2;

Important Points

- Assignment 1 due 13th Jan 23:55
- Go through Assignment 1 again. Minor changes in wording incorporated
- **Any form of cheating is intolerable -> serious consequences**
- Use lnxsrv07 host if you are using seasnet
- Enrol into Piazza ASAP
- Prepend /usr/local/cs/bin to your path in bashrc
- For some of the later labs you will need a Seeed Studio BeagleBone Green Wireless Development Board
- Assignment 9 and 10 have the same deadlines with no late submissions!

Submission Details

- Week 1 submission to be submitted under the Lab 5 submission link **only**
- key1.txt only to record keystrokes of homework
- ans1.txt should have keystrokes and answers of lab assignment
- Test your files on seasnet before submitting
- No submissions will be accepted via email

Tasks

1. Write a command to find the hidden files in your home directory.
2. Remove a non-empty directory.
3. Assign the value 10 to a variable x, 15 to a variable y; Compute and display their addition in the shell. Do not use any editor!
4. Create a directory ‘test’ and ‘subtest’ inside test (in the home directory) without using mkdir twice.
    1. Create empty files ans.txt, ans.html, assign.txt, assign.html
    2. Find all directories and subdirectories in your home directory
    3. Find all files in the test directory starting with a.
    4. Find all text files inside test directory
    5. Find all html files inside test directory
    6. Delete test directory from the home directory
5. Fill your name and surname respectively in the files fname.txt and lname.txt (without any editor). Then merge the contents of both these files into a new file fullname.txt using linux commands.

Tasks

6. Go to emacs and read the manual.

7. Create a new file called countLines.txt with emacs.
    1. Write some content in the first line. Copy the entire content and paste it atleast 10 times in the subsequent lines. Save the file.
    2. Exit emacs and use a shell command to count the number of lines in countLines.txt
    3. Open emacs again, use the same shell command to count the number of lines.

8. Redirect the ls –lrt output of the current directory to a file myDir.txt . Use commands to file the first and the last file retrieved by ls –lrt (from myDir.txt)

9. Open a file in emacs.
    1. Enter 1-5 in descending order in each line. Save and close the file. Print the contents in file1.txt in ascending order.
    2. Now open the same file and copy paste these 5 lines in the same file. Save and close the file. Print all the unique numbers in ascending order in file2.txt
    3. Check if file1.txt and file2.txt are different ?!

Assignment 1: Hints

- Hints for first 10 questions:
  1. man man
  2. which
  3. find
  4. readlink
  5. man chmod
  6. man find
  7. find
  8. whereis, man find
  9. find, sort
  10. localedef

  11-15. Use help (C-h) command of emacs