# COEN 11 Lab 1

#### Terminal Command Line

cd *directory* → changes to the *directory* 

vi *file*  $\rightarrow$  opens the *file* in a vi editor

 $cd .. \rightarrow returns to the previous parent directory$ 

Command Line cheat sheet:

https://cheatography.com/davechild/cheat-sheets/linux-command-line/

#### Vi/Vim Commands

Inside the file type i to start editing the file

To save a file press the "Esc" key, type :w and then press enter

To save and quit press the "Esc" key, type :wq and press enter

To exit a file press the "Esc" key, type :q and press enter

Vim command cheat sheet: <a href="https://vim.rtorr.com/">https://vim.rtorr.com/</a>

## .vimrc Configuration

.vimrc file is in the ~ directory on Linux machines and allows you to configure you vi editor.

It will be really helpful later on in the lab.

Top 50 configurations:

https://www.shortcutfoo.com/blog/top-50-vim-configuration-options/

```
1 set number
2 syntax on
3 set ai
4 set cin
5 set tabstop=5
6 set shiftwidth=5
7 set mouse=a
8 colorscheme desert
```

#### Steps

- 1. Open up Terminal and connect to the Linux computers: ssh -l username linux.dc.engr.scu.edu
- 2. Create a COEN 11 directory: **mkdir coen11**
- 3. Make a file: vi lab1.c
- 4. Compile the file: gcc -o lab1 lab1.c
- 5. Test your file: ./lab1

### Requirements

Edit the ".c" file using vi in the terminal 2 functions ~ main() and division() main() ~ has a for loop (runs 10 times): generate random numbers and passes them to division(); outputs if right or wrong and the correct answer division() ~ prints the numbers (printf) and reads in the answer (scanf); returns 0 if wrong and 1 if right Compare the results and count how many the user got correct and show the total score of the user (out of 10) Demo and submit source code to Camino

# When Submitting the Code...

Add comment at the top of the page with...

- Your name
- Course title
- Lab number
- Lab time and date

```
/* Emma Allegrucci
  * COEN 10
  * Lab 5
  * Monday 2:15pm
  */
```

# Helpful Resources

\*\*\* "The C Programming Language, 2nd Edition" \*\*\*

C: <a href="https://devdocs.io/c/">https://devdocs.io/c/</a>

C: https://www.tutorialspoint.com/c\_standard\_library/index.htm

Terminal commands:

https://cheatography.com/davechild/cheat-sheets/linux-command-line/

Vim commands: <a href="https://vim.rtorr.com/">https://vim.rtorr.com/</a>

