**Exercise-Bash**

**Emily C. Tvedt**

**Question:**

**What is difference between shell and bash?**

* **“shell” is a broad term that refers to any program that provides a command-line interface, “Bash” is a specific type of shell that is widely used in Unix/Linux systems.**

**Exercise 1:**

**What is your home directory? What files/folders exist in your home directory? Navigate to it and then navigate back to your notes.**

My home directory is emilyctvedt. There are many folders in this directory: Applications, Biostatistics 2020, Climatology, Creative Cloud Files (archived) (1), DATA\_612, DATA\_613, Desktop, Documents, Downloads, Dropbox, F23\_DATA\_613, Field Bio Birds, Harlan, Honors Thesis, Library, Mesquite\_Support\_Files, Movies, Music, Pictures, Public, Remote Sensing, Research\_Methods, STAT\_614, STAT\_615, Sites, Tvedt AU MS Thesis, Zotero, ai\_overlay\_tmp, emctvedt@gmail.com Creative Cloud Files, and emilytvedt@gwu.edu Creative Cloud Files (enterprise).

**Exercise 2:**

**Where does the following command take you? How does it work?**

**cd ~/../../..**

This command brought me to the root directory, /. Each iteration of ../ moves the directory up one level. In this case, this would move you up three levels from your home directory.

**Exercise 3:**

**Read the manual page of ls. What does the a flag do? What does the l flag do?**

ls lists all files and folders in a directory. The a flag will include directory entries whose names begin with a dot (‘.’). The l flag will list files in the long format, as described in the The Long Format subsection below.

**Exercise 4:**

**Create a new file with touch command. for instance touch myfile.txt. Run stat myfile.txt what information do you get?**

Stat displays information relating to the creator of the file, as well as the date and time the file was last accessed, modified and changed.

**Exercise 5:**

**Run ls and from there list select a file. Now run ‘ls -l’ to display the details of the files, showing that it has been created or updated. what information does it give you regarding the myfile.txt and your selected file.**

This command shows the most important information for each file in a given directory, including the owner and when the file was last modified.

**Exercise 6:**

**Add the following line This line is my first line to myfile.txt. Then run cat myfile.txt to show the line is added.**

The command shows that the line was added. I used echo This line is my first line >> myfile.txt.

**Exercise 7:**

**Run touch myfile.txt then run ls -l myfile.txt does the “timestamp” for the file myfile.txt is updated? Show the output. *Note: Another common use of the touch command is to update the timestamps of an existing file.***

The timestamp is updated.

A computer screen shot of a black and white screen

Description automatically generated