OSYS 1000 ASSIGNMENT 2

**UNIX**

**Due: Monday, Jan. 28, 2019 (in class)**

# Instructions

1. This assignment is in the form of a checklist that will be applied **to items you have completed** on the newly installed Mint Virtual Machine and in its Terminal interface.
2. This assignment mostly involves creating a script recording file of commands that you have run in your Mint terminal. You might like having two terminal windows open as you create this file: one where you experiment with commands and another where you actual run the script recording.
3. The items in the list should have been covered in the preceding class videos:
   1. Redirection, Piping, & More Commands
   2. UNIX Editors
4. You may also want to check out the additional resources listed in the Week 3 Weekly Agenda for more help if necessary.
5. On the day that the assignment is due you will demonstrate the completion of the tasks to the instructor in class and get the checklist completed/marked.
6. That’s it.

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| Item # | Item Description | Student has completed (Y/N)? |
| - | Open a terminal window and make sure you are in your home folder. |  |
| - | When you are ready to execute all of the commands in steps 1 – 10 in your home folder, type in the following (replacing Mike with your name):  **script assign2\_Mike** |  |
| 1. | Type in the command to list all files/folders in the current directory with permissions and redirect the output of the command to a new file called folder\_listing.txt. | ls -la >> folder\_listing.txt |
| 2. | Now redirect the output of the **pwd** command to the same file, but do not overwrite the file, just append to the end of it. | pwd >> folder\_listing.txt |
| 3. | Run commands(s) to list all files in the /usr/lib directory with “lib” in their names and redirect the results only to a new file called libfiles.txt. | find /usr/lib -name “lib” >>libfiles.txt |
| - | Make sure there are at least two files in your home folder named after **you** with one starting in lowercase and one uppercase (e.g. mike.txt and Mike.txt). |  |
| 4. | List **all** of the files/folders (names only) in your current directory in **reverse** alphabetical order of their names regardless of case (so mike.txt and Mike.txt would be together). | ls | sort -f -r |
| 5. | List **only** the files in your current directory that have your name in the title regardless of case (so at least both of the files above). | find -type f | grep -i cathy |
| 6. | Perform a full listing (i.e. permissions) of files whose name matches “vcs” in the /dev folder | cd /dev  ls -la | grep vcs |
| 7. | In a terminal text editor, create a file called colours.txt with the following strings on separate lines: “red”, “blue”, “green”, “yellow”, “green”. | vi colours.txt |
| 8. | Type a command to output all unique entries in the file in alphabetical order and redirect the output to both the screen and a file called “sortedColours.txt”. | cat colours.txt | sort | uniq | tee sortedColours.txt |
| 9. | Display all lines in the /var/log/syslog file with the string “dhc” regardless of case (so will also match “DHC”) one page at a time. If there are not enough entries in the syslog file, try syslog.1 in the same directory. | cat /var/log/syslog | grep dhc | more |
| 10. | Provide a count of all files in the /bin folder that are over 64k in size and have the letters “sh” in their filenames. | find /bin –size +64k -type f | grep sh | wc -l |
| - | Type in **exit** to stop the script recording of your commands to the file specified above step 1. |  |