OSYS 1000 ASSIGNMENT 4

**UNIX**

**Due: Wednesday, Feb. 20, 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 CentOS Virtual Machine and in its Terminal interface.
2. This assignment mostly involves creating an executable shell script in your CentOS terminal.
3. The items in the list should have been covered in the four preceding class videos:
   1. UNIX Basic Shell Scripting - Part 1
   2. UNIX Basic Shell Scripting - Part 2
   3. UNIX Basic Shell Scripting - Part 3
   4. UNIX Basic Shell Scripting - Part 4
4. You may also want to check out the additional resources listed in the Week 6 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)? |
| - | Log into CentOS. |  |
| - | Create a new ***executable script file*** called **assign4\_mike.sh**. (Replace “mike” with your name). | vim bin/assign4\_Cathy.sh  #!bin/bash |
| 1. | Have a comment at the top of the script file marking yourself as the author. |  |
| 2. | The script will create a subfolder in the current directory with a name specified in the **first command argument**. | Mkdir $1 |
| 3. | The script will report to the screen that the folder was created and STATE THE FOLDER’S NAME. | Echo “$1 folder was created!” |
| 4. | The script will create a file in the current directory with a name specified in the **second command argument**. | Touch $2.txt |
| 5. | The script will report to the screen that the file was created and STATE THE FILE’S NAME. | Echo “$2.txt file was created.” |
| 6. | The script will change the permissions on the file to be Read, Write, and Execute for the **user** (owner), Read and Write for the owning **group**, and just Read for **others**. | Chmod 764 $2.txt |
| 7. | The script will report that the permissions were changed. | Echo “the permissions were changed” |
| 8. | The script will run a command to display **all** files in the /bin folder and redirect the output to the file created in Step 4. | Ls -la /bin >> $2.txt |
| 9. | The script will report to the screen that the list of files in /bin have been written to the file. | Echo “the list of files in /bin have been written to the $2.txt file” |
| 10. | The script will output the number of lines in the file created in Step 4, which will now be essentially a count of the files in /bin. | wc -l < $2.txt |
| 11. | The script will MOVE the file created in Step 4 into the folder created in Step 2. | mv $2.txt ./$1/. |  |
| 12. | The script will report that it has moved the file and that the script has successfully completed. |  |  |
| - | Make sure your script file is *saved and made executable*. | Chmod 764 bin/assign4\_Cathy.sh |  |