CSE 341   Homework Assignment 1

Theme: Chapters 1-5

Due:

Sunday, 29-October-2023 by 23:59

Deliverables:

The following should be completed and submitted by the due date and time specified above. Submissions received after the deadline will be subject to the late policy described in the syllabus. Submit using MS Teams or in person in class.

Acceptable formats for the submissions include:

- o Printed or neatly handwritten document (scanned)
- o Microsoft Word, text, or PDF document
- o Other similar methods

Grading Information:

This assignment is worth 100 points. Each task or question is worth 5 points.

Theme: Chapters 1-5

Problem Set (assume the current user has username {your first initial}{your last name}):

NOTE: Because we will not introduce gaining access to the super user (root) until chapter 5, you may not run any commands as the super user for this assignment.

1. Write a command to display the current working directory? Is the result an absolute or relative path?
2. How do we know if a path to a file name is an absolute path or a relative path?
3. Write a command to change the working directory to the current user's home directory.
4. Write a command or set of commands to change the directory from the user's home directory to the user's "Documents" directory.
5. Inside of the Documents directory, create a subdirectory called "AssignmentSolutions".
6. Inside of the Documents directory, assume there is a subdirectory called "Assignments". While the current working directory is still the Documents directory, copy all files from the Assignments directory to the AssignmentSolutions directory.
7. Write a command to display the first 20 lines of the file called "Assignment1.txt" inside the AssignmentSolutions subdirectory.
8. Rename Assignment1.txt in the AssignmentSolutions directory to "Assignment1_Solutions.txt".
9. Type the command to change the password for the current user. If you attempt to change the password to "Student", is your attempt successful? If not, why not?
10. Change to the user's home directory and create a subdirectory in the Documents directory. Name this new directory "Courses".
11. Inside of this new directory, create new directories for all of the courses you are taking this semester in the format of "CSE"+{code}. Example: "CSE341" or "CSE5041" should appear.
12. Move the folders "Assignments" and "AssignmentSolutions" from the "Documents" directory into the CSE341 (or 5041) subdirectory you just created.
13. Inside of the "CSE341" (or 5041) directory create a new directory called "Exams".
14. Using one command take the last 10 lines from Assignment1.txt (in the Assignments directory) and make them into a new file called "MidtermExam.txt" inside of the new Exams directory
15. Using one command, append the entire text of the file "Assignment2.txt" that is inside the Assignments directory to the file MidtermExam.txt.
16. Write a command to display the contents of MidtermExam.txt and also copy the contents to a new file called "MidtermExam_Solutions.txt".
17. Remove the subdirectory "OnlineOgretim" from the directory "Courses". (Note: this subdirectory is empty)
18. There is a subdirectory called "Viruses" in the "Documents" directory. Remove the subdirectory "COVID19" from the directory "Viruses". (Note: this subdirectory is not empty)

```
drwxrwxr-x. 2 mj          heroes  84 Jan  5 06:31 nowayhome

./nowayhome:
total 16
-r--r--r--. 1 electro        villains     16 Jan  5 06:31 glider.txt
--wxrw--w-. 1 doctoroctopus doctoroctopus 16 Jan  5 06:28 mechArms.txt
-rw-r--r--. 2 drstrange      doctors      16 Jan  5 06:28 spell.txt
-rwxrw----. 1 pparker        multiverse   16 Jan  5 06:28 webslingers.txt
```

19. Given the above shown files, one of these files has an additional hard link. Which one is it? Explain how you know or if it cannot be determined, explain why.
20. Given the above shown files, one of these files has an additional symbolic (or soft) link. Which one is it? Explain how you know or if it cannot be determined, explain why.