**Homework Assignment 01**

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**1.Write a command to display the current working directory? Is the result an absolute or relative path?**

Pwd. The result is an absolute path.

**2.How do we know if a path to a file name is an absolute path or a relative path?**

The full path is called the “absolute path” that means it tells every step has to be taken from the root. They are easy to understand but they can also be inconvenient to work with if you are working with deeply nested directories.

A file's “relative path” is it location relative to the current working directory. If you are working files in or near the current working directory, this can save you a lot of typing.

Every time you have referred to a file by just its name, you have actually been using a relative path. This is simplest sort of relative path.

The shell looks for the specified file name within the current directory.

For example, if the current working directory is photos and you want to go to photo1;

Absolute path: /home/asli/photos/nikon/photo1

Relative path: /nikon/photo1

**3.Write a command to change the working directory to the current user’s home directory.**

cd is the 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.**

cd Documents

**5.Insideof the Documents directory, create a subdirectory called “AssignmentSolutions”.**

mkdir 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.**

cp Assignments /\* AssignmentSolutions

**7.Write a command to display the first 20 lines of the file called “Assignment1.txt” inside the AssignmentSolutions subdirectory.**

head -20 AssignmentSolutions/ Assignment1.txt

**8.RenameAssignment1.txt in the AssignmentSolutions directory to “Assignment1\_Solutions.txt”.**

mv AssignmentSolutions/ Assignment1.txt AssignmentSolutions/ Assignment1\_Solutions.txt

**9.Type the command to change the password for the current user.**

passwd is the command that change the password for the current user.

**10.If you attempt to change the password to “Student”, is your attempt successful? If not, why not?**

No. Bad Password: The password is shorter than 8 characters.

**11.Change to the user’s home directory and create a subdirectory in the Documents directory. Name this new directory “Courses”.**

cd (change to the user’s home directory)

mkdir Documents/Courses (create a subdirectory in the Documents directory)

**12.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: “CSE313” or “CSE5041” should appear. Bonus 5 points for doing this with only one command.**

mkdir Documents/Courses/CSE{101,303,365,321,313}

**13.Move the folders “Assignments” and “AssignmentSolutions” from the “Documents” directory into the CSE313 (or 5041) subdirectory you just created.**

mv Documents/Assignments Documents/AssignmentSolutions Documents/Courses/CSE313

**14.Inside of the “CSE313” (or 5041) directory create a new directory called “Exams”.**

mkdir Documents/Courses/CSE313/Exams

**15.Using one command take the last 10 lines from Assignment1.txt and make them into a new file called “MidtermExam.txt” inside of the new Exams directory**

tail –n 10 Documents/Courses/CSE313/Assignments/Assignment1.txt > Documents/Courses/CSE313/Exams/MidtermExam.txt

**16.Using one command, append the entire text of the file “Assignment2.txt” that is inside the Assignments directory to the file MidtermExam.txt.**

cat Documents/Courses/CSE313/Assignments/Assignment2.txt >> Documents/Courses/CSE313/Exams/MidtermExam.txt

**17.Write a command to display the contents of MidtermExam.txt and also copy the contents to a new file called “MidtermExam\_Solutions.txt”.**

cat Documents/Courses/CSE313/Exams/ MidtermExam.txt | tee Documents/Courses/CSE313/Exams/MidtermExam\_Solutions.txt

**18.Remove the file “Assignment5.txt” from the Assignments directory.**

rm Documents/Courses/CSE313/Assignments/Assignment5.txt

**19.Remove the subdirectory “OnlineOgretim” from the directory “Courses”. (Note: this subdirectory is empty)**

rmdir Documents/Courses/OnlineOgretim

**20.There is a subdirectory called “Viruses” in the “Documents” directory. Remove the subdirectory “COVID19” from the directory “Viruses”. (Note: this subdirectory is not empty)**

rm –r Documents/Viruses/COVID19