

NAME / S : _____

Serial Number / S:

CS 4350 – Unix Systems Programming

Assignment Number : _____

Due Date : 2 / 24 / 2020

Write the above as part of your documentation in the script as comments

Write a script that will do the following .:

1. Find out whether you are a root or not. Assuming that the root's uid is 501.
2. Print the count of files and subdirectories in the specified directory.
3. Count and print the total number of .txt files in that directory,

Note :

Can not use the following command

ls -l | wc -l

Must use a loop

4. Produce a file that contains the names of all sub folders with size 0 (that is empty sub folders) . Display the content of the file.
5. Assume that the input from the command is used to validate password strength. Here are a few assumptions for the password string.
 - Length – minimum of 8 characters.
 - Contain both alphabet and number.
 - Include both the small and capital case letters.

If the password doesn't comply with any of the above conditions, then the script should report it as a <Weak Password>.

6. Display the name of the directory that is entered from the command line in reverse order

Example : Assuming that abcd is name of a directory in your current home director , Use the following command to run your script

`./Z_S10_HW2.sh abcd`

Note : Not allowed to use recursion .

Instructions :

1. The programs must be syntactically and logically correct. The program will be tested **using Zeus Server** at the university.
2. Can work as a group of 2.
3. You may use functions but no recursions are allowed.
4. Must submit one hard copy that contains all your scripts. May include output of the scripts.
5. Design your own output format. Make sure that you include the header and footer sections.
6. You must upload your solution **using TRACS** – Make sure you include the above as comments in your program

Make sure that you name your homework document as follows :

Z_S#_HW2.sh

Where S# is your Serial Number. For example , the file name should look something like :

Z_S10_HW2.sh

You must upload your programs no later than the starting of class time on the due date.
No late assignments will be accepted..

7. You must **also** turn in hard copy of your source code no later than the due date / time . Please turn one hard copy / group . Should the hard copy consist of more than one page , then , the hard copy must be **stapled**. if you are unable to turn in a printout during class, you can take the program to the computer science department and hand it to the front desk personal (Comal 211) before the deadline. Make sure that the front office stamps the program. Make sure that include the date and time. Finally ,make sure that they place the program in my mailbox. Hardcopy must contain the script followed by sample run.

DO NOT slide your program under my office door – It will **NOT** be accepted

The following points will be deducted if :

- Compilation Errors, missing electronic copy , missing the hardcopy , using recursion (- 10 points)
- Logical Errors (at least .5 points)
- Other (.75 points) if any of the following takes a place :
 - Unable to read the source code due to unclear printing
 - Incorrect program file name.
 - Hard copy is not stapled.
 - More than one hard copy per group (if it is done as a group).
 - Incorrect Style **such as but not limited to** Missing Header comments , missing footer , missing / incorrect serial number , missing / incorrect section number , not replacing my name with your name... etc.

Sample Run: The script starts her. Replace my first / last name with your first / last name

Opportunities to program scripts in UNIX

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Implemented by Husain Ghooloom - 2 – 24 – 2020