**Assignment 4 Due Date: 04/19/2021**

This assignment is due on Monday, 04/19/2021 at 4:00 PM

Please Answer the following questions

1- Your Linux system's umask variable is currently set to a value of 126. A user named jsmith, who is a member of the “testing” group and his default group is “testing” creates a file named lab.txt. What can users who are members of the testing group do with this file?

Answer: when jsmith create “lab.txt” file after umask 126 it have

( -rw-r-----) permissions. So, in group, member can only read.

2- Which of the following correctly represents the permission for the given symbolic expression -r-xrw-r--?

A. 777

B. 563

C. 564

D. 721

Answer: C. 564

3- Set the permissions on the file path /home/tcruise/Soundtrack-Folder/Tracks/ track4 so that the owner has read, write permissions. The group should have no access permission, and everyone else should have read permission. What commands he should use? (Use both symbolic and numeric permissions)

Answer:

symbolic permission: chmod u=rw,g=,o=r /home/tcruise/Soundtrack-Folder/Tracks/ track4

numeric permissions: chmod 604 /home/tcruise/Soundtrack-Folder/Tracks/ track4

4- Which of these commands will set the following permissions on file1.txt?User = Read, Write, ExecuteGroup = Read, ExecuteOthers = Read

A. chmod o=rwx,g=rx,u=r file1.txt

B. chmod u=rw,g=rx,o=r file1.txt

C. chmod 754 file1.txt

D. chmod file1.txt 754

Answer: C. chmod 754 file1.txt

5- Which of the following are valid permissions for a directory where the command chmod 1777 has been used to set the permissions on

A. drwxrwxrw-

B. Srwxrwxrwx

C. drwxrwxrwt

D. trwxrwxrwx

Answer: C. drwxrwxrwt

6- Change the group ownership for the file path /home/tcruise/Soundtrack-Folder/Tracks/ track2 to have the group ownership of 'guardians'

Answer: chgrp guardians /home/tcruise/Soundtrack-Folder/Tracks/ track2

7- Set the permissions on the file 'track4' so that the owner has read, write, and execute permissions. The group should have read permissions only, and everyone else should have no access (use both symbolic and numeric permissions)

Answer: symbolic permissions chmod u=rwx,g=r,o= track4

numeric permissions chmod 740 track4

8- What is the command can be used to apply special permission on the directory path /home/tcruise/Soundtracks Folder/Tracks so users who have write permission can delete only own files and cannot delete other users' files

Answer: chmod o+t /home/tcruise/Soundtracks Folder/Tracks

chmod 1777 /home/tcruise/Soundtracks Folder/Tracks

9- root attempts to run the locate command to find track6 file that was just created, but the output didn't display any file. What command he must run first to be able to locate the file

Answer: find ~ -name ‘track\*’

(it will give path)

10- Which of the following are valid permissions for vi binary file where the command "chmod 4774 /usr/bin/vi" has been used to set the permissions on  
A. -rwxrwSr--

B. -rwSrwxrwx

C. drwSrwxr--

D. -rwSrwxr--

Answer: D. -rwsrwxr--