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Graded Assignment module1-4.

Question 3.

1.Used command echo "This is a sample text ."> ~/sample_data.txt, to create a file in the home directory and write contents inside . File created and display shows no changes.

2.Command ln ~/sample_data.txt ~/sample_hard.txt to create hard link to fie sample_data.txt. Hard link created and display does not show any changes, however file is created.

3.Command used is ln -s ~/sample_data.txt ~/sample_soft.txt and created a soft link to the file sample_data.txt, display only shows command.

4.Used command ls -i to check the inode numbers of the 3 files and after pressing enter it displays the inode number of all the files, the original file and the hard link file have the same inode number and the soft link file has a different inode number.

5.used the command ls -l sample_data text to show how many hard links point to the same inode, displays shows,permissions then number of hard link,which in this case is 2, home directory ,23 bytes date and time last modified and name if the file.

6.Used command ls -l sample_data.txt,same as nr5. Displays all that info listed in nr5.

7. To check total size of home directory, used command du -sh ~, output displays 52k and home directory.

8.Used command ls -lh ~ , to list all the files in my home directory, output displays all the files created, their permissions, the ownership, the timestamps and file names.

9. Used command rm sample_soft.txt to remove the soft link ,no display in output. Then used command ls -l sample_data.txt, to check if the original file is still there, output shows file is still there and its information.

10.Used command **df**, and the output displays the filesystem, total capacity and available space and used and where mounted on of the filesystem and partitions. The **du** command shows the sizes of the specific directories, output shows the cache, different specific directories and their sizes.