UNIX

Foundation Exercises

Module 03 - Filesystem

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**Perform the following tasks**

1. Create a directory in your home directory called **tradingSystem**.
2. Create 2 files in your home directory called **countries** and **places**.
3. Move the **countries** file to your **tradingSystem** directory.
4. Rename the **places** file with a new name of **cities**
5. Copy the **cities** file to your **tradingSystem** directory
6. Create a file called **myProgram** in your home directory.
7. Display the permissions of **myProgram**.
8. Change the permissions of **myProgram** to **-rwxr-x--x**
9. Display the timestamps of **myProgram**
10. Create a directory called **temp**.
11. Copy your **myProgram** into **temp**.
12. Delete the **temp** directory and all its contents.
13. Identify the type of contents held in the following files using the **file** command

**/etc/hosts**

**/dev/fd/0**

**/dev/tty0**

**/bin/touch**

1. Copy the directories **day1** and **day2** and their contents, from **/student\_files** into your home directory.
2. Move into your **tradingSystem** directory.
3. Copy the following files into your **tradingSystem** directory:  
   **/student\_files/places.dat  
   /student\_files/companies.dat  
   /student\_files/trades.dat**
4. List the contents of your **tradingSystem** directory, sorted by file size.
5. Display the content of the **places.dat** file
6. Display the last 2 lines of the **places.dat** file.
7. Display the first 5 lines of the **companies.dat** file.
8. Create a hard link to the **places.dat** file called **location.dat**
9. Create a symbolic link to the **companies.dat** file called **companies**
10. Display the inode numbers of all the files in the **tradingSystem** directory
11. Make a backup copy of the **trades.dat** file called **trades.bak**
12. Shred the **trades.dat** file and check that the file is unreadable
13. Restore the **trades.dat** file from the backup and check that the restored file is readable