**PS5**

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**1. More Linux Commands**

In this exercise, we will learn a few more Linux commands. For each command, please use man to learn what it does and how to use it correctly. First, change your directory to ~.

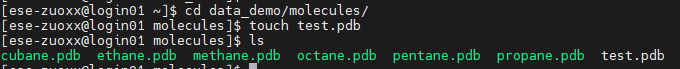
**1.1 [2 points]** Make a link called data\_demo\_link to data\_demo folder using ln.



**1.2 [2 points]** Print your home directory using echo.



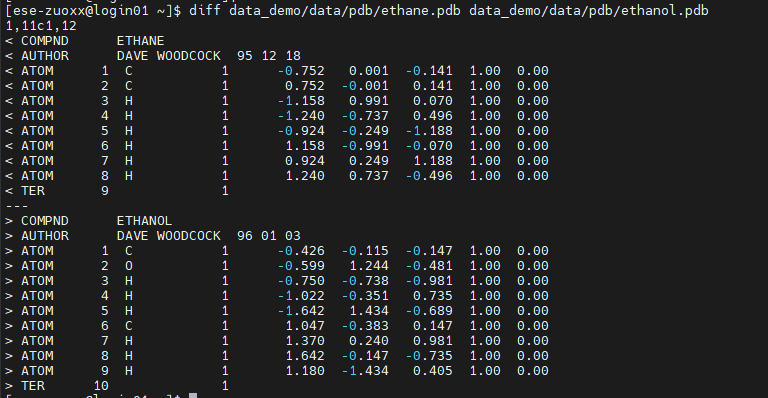
**1.3 [2 points]** Go to data\_demo/molecules/, make an empty file test.pdb with touch.



**1.4 [3 points]** Find how many files in data\_demo/data/elements/ using find.



**1.5[2points]** Compare data\_demo/data/pdb/ethane.pdb and data\_demo/data/pdb/ethanol.pdb with diff.



**1.6 [3 points]** Count how many But she string appears in data\_demo/writing/data/LittleWomen.txt with grep.



**1.7 [2 points]** Check the total file size of the data\_demo/data/ folder using du.



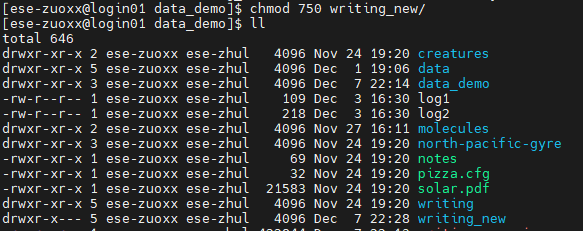
**1.8 [3 points]** Copy the data\_demo/writing/ folder to data\_demo/writing\_new/,compress data\_demo/writing\_new/ using zip, and decompress the .zip file with unzip.



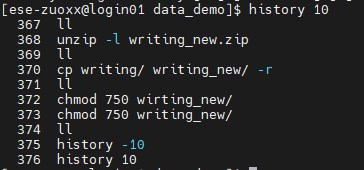




**1.9 [3 points]** Change the file permissions flags on writing\_new to drwxr-x---using chmod.



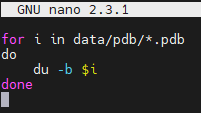
**1.10 [3 points]** Print the last 10 commands you made using history.



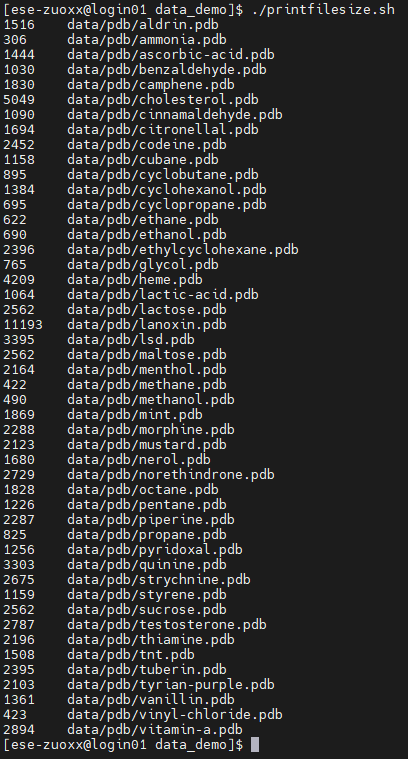
**2. BASH for Loop**

**[5 points]** Write a shell script to print file size (in bytes) of each \*.pdb file in data\_demo/data/pdb/, line by line.









**Collaboration:**

<https://www.runoob.com/linux/linux-tutorial.html>

https://zhu-group.github.io/ese5023/Section\_12.html