CAI Kezhu (蔡可祝)'s TA report for assignment05

SID: 12132496

Github: https://github.com/Baicai0908/ESE5023_Assignments_12132496

Responsible TA: HUANG Hao

Grade: 29

1、

(1) 软链接: (文件本体删除后, 创建的软链接也失效)

[ese-caikzh@login03 data_demo]\$ ln -s data_demo_link data_demo
硬链接: (相当于创建文件的副本)

(2) Echo 命令

[ese-caikzh@login03 ~]\$ echo * data_demo exam You need to print the home directory, not the file names within home directory. Accordingly, 1 point was deducted. You can do that by: echo \$HOME.

(3) Touch 命令

```
[ese-caikzh@login03 molecules]$ touch test.pdb
[ese-caikzh@login03 molecules]$ ls
cubane.pdb methane.pdb pentane.pdb test.pdb
ethane.pdb octane.pdb propane.pdb
```

(4) Find 命令

[ese-caikzh@login03 elements]\$ find . -type f -print | wc -l
103

(5) Diff 命令

```
[ese-caikzh@login03 ~]$ cd data_demo/data/pdb
[ese-caikzh@login03 pdb]$ diff ethane.pdb ethanol.pdb
1,11c1,12
< COMPND
               ETHANE
< AUTHOR
               DAVE WOODCOCK
                                95 12 18
             1
< ATOM
                C
                              1
                                      -0.752
                                               0.001
                                                       -0.141
                                                                1.00
                                                                       0.00
                                              -0.001
                                                        0.141
< ATOM
             2
                C
                              1
                                      0.752
                                                                1.00
                                                                       0.00
< ATOM
             3
                Н
                                               0.991
                                                        0.070
                                                                1.00
                                                                      0.00
                              1
                                      -1.158
< ATOM
             4
                Н
                                      -1.240
                                              -0.737
                                                        0.496
                                                                1.00
                                                                      0.00
             5
< ATOM
                Н
                              1
                                      -0.924
                                              -0.249
                                                       -1.188
                                                                1.00
                                                                       0.00
< ATOM
             6
                Н
                                       1.158
                                              -0.991
                                                       -0.070
                                                                1.00
                                                                       0.00
                              1
             7
< ATOM
                Н
                                      0.924
                                               0.249
                                                        1.188
                                                                1.00
                                                                       0.00
             8
< ATOM
                Н
                              1
                                       1.240
                                               0.737
                                                        -0.496
                                                                1.00
                                                                       0.00
             9
                              1
< TER
> COMPND
               ETHANOL
               DAVE WOODCOCK
                                96 01 03
 AUTHOR
                                              -0.115
                                                                1.00
 MOTA
             1
                                      -0.426
                                                       -0.147
                                                                       0.00
                C
                              1
 ATOM
             2
                0
                              1
                                      -0.599
                                               1.244
                                                       -0.481
                                                                1.00
                                                                       0.00
 MOTA
             3
                Н
                              1
                                               -0.738
                                                       -0.981
                                                                1.00
                                                                       0.00
                                      -0.750
 ATOM
             4
                Н
                              1
                                      -1.022
                                              -0.351
                                                        0.735
                                                                1.00
                                                                       0.00
 ATOM
             5
                Н
                              1
                                                       -0.689
                                                                       0.00
                                      -1.642
                                               1.434
                                                                1.00
             6
                C
ATOM
                              1
                                      1.047
                                              -0.383
                                                        0.147
                                                                1.00
                                                                       0.00
             7
                Н
 MOTA
                              1
                                       1.370
                                               0.240
                                                        0.981
                                                                1.00
                                                                       0.00
             8
> ATOM
                Н
                              1
                                       1.642
                                               -0.147
                                                        -0.735
                                                                1.00
                                                                       0.00
             9
                Н
> ATOM
                              1
                                       1.180
                                               -1.434
                                                         0.405
                                                                1.00
                                                                       0.00
> TER
            10
```

1, 11c1, 12 含义:第一个文件中的第[1,11]行(闭合区间,包括第 1 行和第 11 行)需要做出修改才能与第二个文件中的[1,12]行相匹配。

(6) Grep 命令

```
[ese-caikzh@login03 data]$ grep -c 'But she' *n.txt
15
```

(7) Du 命令

Using 'du -h -c data_demo/data/' would be better

[ese-caikzh@login03 data]\$ du 1281 .

(8) Zip 命令

```
[ese-caikzh@login03 data_demo]$ zip -q -r writing_new.zip *

[ese-caikzh@login03 data_demo]$ ls

creatures data_demo_link north-pacific-gyre solar.pdf writing_new
data draft.txt notes thesis writing_new.zip
data_demo molecules pizza.cfg writing

Unzip 命令

[ese-caikzh@login03 data_demo]$ unzip writing_new.zip
```

[ese-caikzh@login03 data_demo]\$ unzip writing_new.zip
Archive: writing_new.zip
replace creatures/basilisk.dat? [y]es, [n]o, [A]ll, [N]one, [r]ename:

(9) Chmod 命令

```
[ese-caikzh@login03 data_demo]$ chmod 750 writing_new
drwxr-x--- 5 ese-caikzh ese-ouycc 4096 Nov 25 11:53 writing_new
```

(10) History 命令

```
[ese-caikzh@login03 data_demo]$ history | tail -n 10
  256  rm writing_new.zip
  257  ls
  258  chmod drwxr-x--- writing_new
  259  chmod --help
  260  chmod 750 writing_new
  261  ls
  262  writing_new
  263  ls -l
  264  history
  265  history | tail -n 10
```

```
[ese-caikzh@login01 pdb]$ for file in *.pdb
> do
> du -b $file
> done
1516
        aldrin.pdb
306
        ammonia.pdb
1444
        ascorbic-acid.pdb
1030
        benzaldehyde.pdb
1830
        camphene.pdb
5049
        cholesterol.pdb
1090
        cinnamaldehyde.pdb
1694
        citronellal.pdb
2452
        codeine.pdb
1158
        cubane.pdb
895
        cyclobutane.pdb
1384
        cyclohexanol.pdb
695
        cyclopropane.pdb
622
        ethane.pdb
690
        ethanol.pdb
2396
        ethylcyclohexane.pdb
765
        glycol.pdb
4209
        heme.pdb
1064
        lactic-acid.pdb
2562
        lactose.pdb
11193
        lanoxin.pdb
3395
        lsd.pdb
2562
        maltose.pdb
2164
        menthol.pdb
422
        methane.pdb
490
        methanol.pdb
1869
        mint.pdb
2288
        morphine.pdb
2123
        mustard.pdb
1680
        nerol.pdb
2729
        norethindrone.pdb
1828
        octane.pdb
1226
        pentane.pdb
2287
        piperine.pdb
825
        propane.pdb
1256
        pyridoxal.pdb
3303
        quinine.pdb
2675
        strychnine.pdb
1159
        styrene.pdb
2562
        sucrose.pdb
2787
        testosterone.pdb
2196
        thiamine.pdb
1508
        tnt.pdb
2395
        tuberin.pdb
2103
        tyrian-purple.pdb
1361
        vanillin.pdb
423
        vinyl-chloride.pdb
2894
        vitamin-a.pdb
```