ZHANG Bo (张波)'s TA report for assignment05 SID: 12132713 Github: https://github.com/zhang98765432/ESE5023_Assignments_12132713 Responsible TA: HUANG Hao #Python5 作业 Well done! 12132713 张波 地球与科学系 物理学 1.1 ln -s data_demo_link

```
[ess-zhangb@login01 ~]$ ln -s data_demo_link
[ess-zhangb@login01 ~]$ ls
       data demo data demo link exam
                                     mi.txt
                                             odd
```

1.2 echo \$(pwd)

~ 代表的时家目录,所以直接使用了 pwd

```
[ess-zhangb@login01 ~]$ echo $(pwd)
/work/ess-zhangb
```

1.3 touch test.pdb

```
[ess-zhangb@login01 molecules]$ ls -a
. .. cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb
[ess-zhangb@login01 molecules]$ touch test.pdb
[ess-zhangb@login01 molecules]$ ls -a
        cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb test.pdb
```

1.4 find . -name "*.xml" | wc -l

```
[ess-zhangb@login01 elements]$ find . -name "*.xml" | wc -l
```

1.5 diff ethane.pdb ethanol.pdb

```
[ess-zhangb@login01 pdb]$ diff ethane.pdb ethanol.pdb
1,11c1,12
< COMPND ETHANE
< AUTHOR DAVE WOODCOCK 95 42 46
                  C
                                            -0.752
0.752
                                                     0.001
-0.001
  ATOM
                                                                -0.141
                                                                                 0.00
                                  1
                                                                          1.00
               2
                                                                 0.141
                                                                                 0.00
  ATOM
                                                                          1.00
                                           -1.158
               3
4
5
6
7
  ATOM
                  Н
                                                       0.991
                                                                 0.070
                                                                          1.00
                                                                                 0.00
                                                      -0.737
                                                                                 0.00
  ATOM
                                            -1.240
                                                                 0.496
                                                                          1.00
                  Н
                                           -0.924
1.158
                                                     -0.249
-0.991
  MOTA
                  Н
                                                                -1.188
                                                                          1.00
                                                                                 0.00
                                                                -0.070
                                                                          1.00
< ATOM
                  Н
                                                                                 0.00
                                            0.924
                                                       0.249
0.737
                                                                          1.00
1.00
  ATOM
                                                                 1.188
                                                                                 0.00
  MOTA
                                             1.240
                                                                -0.496
                                                                                 0.00
  TER
  COMPND
                  ETHANOL
  AUTHOR
                 DAVE WOODCOCK 96 01 03
                                                      -0.115
1.244
  MOTA
                                            -0.426
                                                                -0.147
                                                                                 0.00
                                                                          1.00
               12345678
  ATOM
                  0
                                            -0.599
                                                                -0.481
                                                                                 0.00
  MOTA
                                            -0.750
                                                      -0.738
                                                                -0.981
                                                                          1.00
                                                                                 0.00
  ATOM
                  Н
                                            -1.022
                                                      -0.351
                                                                 0.735
                                                                          1.00
                                                                                 0.00
                  H
C
                                            -1.642
                                                       1.434
                                                                -0.689
                                                                          1.00
                                                                                 0.00
  ATOM
                                                      -0.383
                                             1.047
                                                                 0.147
                                                                          1.00
                                                                                 0.00
  ATOM
                                             1.370
                                                       0.240
                                                                 0.981
                                                                                 0.00
  MOTA
                  Н
                                                                          1.00
                  Н
                                                                                 0.00
  MOTA
                                             1.642
                                                      -0.147
                                                                -0.735
                                                                            .00
  ATOM
               9
                                                                                 0.00
                  Н
                                                                          1.00
                                             1.180
                                                      -1.434
```

1.6 grep 'But she' LittleWomen.txt

```
[ess-zhangb@login01 data]$ grep 'But she' LittleWomen.txt
"Oh, bless you, no! But she let old Belsham rest, and when I ran back
small quaver in her voice, "I came to thank you, sir, for..." But she
than she went. But she begged so hard, and Sallie had promised to take
But she does not hunt as our darling did,
But she only spits at the dogs our pet
But she is not fair to see,
queer thing for her to do, she doesn't act a bit like herself. But she
aspirant for fame, with philosophic composure. But she made a wry face
her. But she can pet and comfort him after I'm gone, and so cure him
to see signs of hope in the faint color on Beth's cheeks. But she
But she did not get it, for though he joined her and answered all her
sketchbook. But she tucked it under her arm with a sharp...
Amy did any of these fond and foolish things. But she certainly did
But she did show something better than brilliancy or skill, for she
grasshopper. But she would have consented if he had proposed to sing a
```

1.7 du -s /work/ess-zhangb/data_demo/data/

```
[ess-zhangb@login01 data]$ du -s /work/ess-zhangb/data_demo/data/
850 /work/ess-zhangb/data_demo/data/
```

```
[ess-zhangb@login01 data]$ du -b -c
100707
        ./pdb
35594
        ./elements
4251
        ./animal-counts
228477
228477
        total
[ess-zhangb@login01 data]$ du -c
        ./pdb
408
52
         ./elements
        ./animal-counts
720
720
        total
```

1.8

cp -r /work/ess-zhangb/data_demo/writing /work/ess-zhangb/data_demo/writing_new

```
[ess-zhangb@login01 writing] to p -r /work/ess-zhangb/data_demo/writing /work/ess-zhangb/data_demo/writing_new
[ess-zhangb@login01 writing] to ..
[ess-zhangb@login01 data_demo] to sale in the control of the control o
```

zip -r writing new.zip /work/ess-zhangb/data demo/writing new

```
[ess-zhangb@login01 data_demo]$ zip -r writing_new.zip /work/ess-zhangb/data_demo/writing_new/
updating: work/ess-zhangb/data_demo/writing_new/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/haiku.txt (deflated 29%)
updating: work/ess-zhangb/data_demo/writing_new/tools/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/tools/stats (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/tools/old/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/tools/old/oldtool (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/tools/format (deflated 13%)
updating: work/ess-zhangb/data_demo/writing_new/data/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/data/cone.txt (deflated 53%)
updating: work/ess-zhangb/data_demo/writing_new/data/two.txt (deflated 59%)
updating: work/ess-zhangb/data_demo/writing_new/data/two.txt (deflated 59%)
updating: work/ess-zhangb/data_demo/writing_new/thesis/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/thesis/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/thesis/ (stored 0%)
updating: work/ess-zhangb/data_demo/writing_new/thesis/ estored 0%)
up
```

unzip writing_new.zip

1.9 chmod 750 writing new

```
[ess-zhangb@login01 data_demo]$ ls -lrt
total 132
-rwxr-xr-x 1 ess-zhangb ess-dongl 21583 Nov 24 19:18 solar.pdf
drwxr-xr-x 5 ess-zhangb ess-dongl 4096 Nov 24 19:18 writing
-rwxr-xr-x 1 ess-zhangb ess-dongl 69 Nov 24 19:18 notes
-rwxr-xr-x 1 ess-zhangb ess-dongl 32 Nov 24 19:18 north-pacific-gyre
drwxr-xr-x 3 ess-zhangb ess-dongl 4096 Nov 24 19:18 north-pacific-gyre
drwxr-xr-x 5 ess-zhangb ess-dongl 4096 Nov 24 19:18 creatures
drwxr-xr-x 5 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Dec 8 12:17 molecules
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Dec 8 12:52 writing_new
[ess-zhangb@login01 data_demo]$ chmod 750 writing_new/
[ess-zhangb@login01 data_demo]$ ls -lrt
total 132
-rwxr-xr-x 1 ess-zhangb ess-dongl 4096 Nov 24 19:18 solar.pdf
drwxr-xr-x 5 ess-zhangb ess-dongl 4096 Nov 24 19:18 writing
-rwxr-xr-x 1 ess-zhangb ess-dongl 4096 Nov 24 19:18 notes
-rwxr-xr-x 1 ess-zhangb ess-dongl 4096 Nov 24 19:18 north-pacific-gyre
drwxr-xr-x 2 ess-zhangb ess-dongl 4096 Nov 24 19:18 creatures
drwxr-xr-x 2 ess-zhangb ess-dongl 4096 Nov 24 19:18 creatures
drwxr-xr-x 2 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 5 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
drwxr-xr-x 6 ess-zhangb ess-dongl 4096 Nov 24 19:18 data
```

1.10 history 10

```
[ess-zhangb@login01 data_demo]$ history 10
 1064
      pwd
 1065
       ls -a
 1066 unzip writing_new.zip
 1067
      ls -a
 1068
       pwd
 1069
      cd ..
      ls -lrt
 1070
 1071 chmod 750 writing_new/
 1072
       ls -lrt
 1073 history 10
```

新建一个 run.sh, 文件内容如下

```
print size of *.pdb

for f in *.pdb

do
   du -b $f

done
~
~
```

更改文件的权限,chmod,执行这个文件,会输出每个*.pdb 文件的大小。

```
cholesterol.pdb
cinnamaldehyde.pdb
citronellal.pdb
5049
1090
1694
2452
                  codeine.pdb
                 codeine.pdb
cubane.pdb
cyclobutane.pdb
cyclohexanol.pdb
cyclopropane.pdb
ethane.pdb
ethanol.pdb
ethylcyclohexane.pdb
glycol.pdb
heme.pdb
lactic-acid.pdb
1158
895
1384
695
622
690
2396
765
4209
1064
                  lactic-acid.pdb
lactose.pdb
2562
11193
                  lanoxin.pdb
3395
2562
2164
422
                  lsd.pdb
                 maltose.pdb
menthol.pdb
methane.pdb
methanol.pdb
mint.pdb
morphine.pdb
490
1869
2288
                  mustard.pdb
1680
                  nerol.pdb
2729
1828
                  noreth indrone.pdb
                 octane.pdb
pentane.pdb
piperine.pdb
1226
2287
825
1256
                  propane.pdb
                 pyridoxal.pdb
quinine.pdb
strychnine.pdb
3303
2675
1159
                  styrene.pdb
2562
2787
2196
1508
                  sucrose.pdb
testosterone.pdb
thiamine.pdb
                   tnt.pdb
2395
                   tuberin.pdb
2103 tyrian-purple.pdb
1361 vanillin.pdb
423 vinyl-chloride.pdb
2894 vitamin-a.pdb
[ess-zhangb@login01 pdb]$
```