

Assignment 05

1.1

[ese-tiank@login02 ~]\$ In -s data_demo_link [ese-tiank@login02 ~]\$ Is data_demo data_demo_link exam

1.2

[ese-tiank@login02 ~]\$ echo \$(pwd) /work/ese-tiank

1.3

[ese-tiank@login02 ~]\$ cd data_demo/molecules/
[ese-tiank@login02 molecules]\$ touch test.pdb
[ese-tiank@login02 molecules]\$ ls
cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb
test.pdb

1.4

[ese-tiank@login02 molecules]\$ cd ../data/elements/ [ese-tiank@login02 elements]\$ find . -type f | wc -l 103

1.5

[ese-tiank@login02 elements]\$ cd ../pdb/ [ese-tiank@login02 pdb]\$ diff ethane.pdb ethanol.pdb 1,11c1,12 < COMPND ETHANE

< COMPND		ETH	IANE					
< AUTHOR		DAV	E WOODCOCK	95 12 18				
< ATOM	1	С	1	-0.752	0.001	-0.141	1.00	0.00
< ATOM	2	С	1	0.752	-0.001	0.141	1.00	0.00
< ATOM	3	Н	1	-1.158	0.991	0.070	1.00	0.00
< ATOM	4	Н	1	-1.240	-0.737	0.496	1.00	0.00
< ATOM	5	Н	1	-0.924	-0.249	-1.188	1.00	0.00
< ATOM	6	Н	1	1.158	-0.991	-0.070	1.00	0.00
< ATOM	7	Н	1	0.924	0.249	1.188	1.00	0.00
< ATOM	8	Н	1	1.240	0.737	-0.496	1.00	0.00
< TER	9		1					
> COMPND		ETH	IANOL					
> AUTHOR		DAV	E WOODCOCK	96 01 03				

> ATOM 1 C 1 -0.426 -0.115 -0.147 1.00 0.00

```
> ATOM
             2 O
                             1
                                     -0.599
                                             1.244
                                                    -0.481
                                                           1.00
                                                                  0.00
                             1
> ATOM
             3
               Н
                                    -0.750
                                            -0.738
                                                    -0.981
                                                            1.00
                                                                  0.00
> ATOM
                             1
                                    -1.022
                                            -0.351
                                                     0.735
                                                            1.00
                                                                 0.00
             4 H
> ATOM
             5 H
                             1
                                    -1.642
                                             1.434
                                                    -0.689
                                                            1.00
                                                                 0.00
> ATOM
             6 C
                             1
                                     1.047
                                            -0.383
                                                     0.147
                                                            1.00
                                                                 0.00
> ATOM
             7
                Н
                             1
                                     1.370
                                             0.240
                                                     0.981
                                                            1.00
                                                                 0.00
                             1
> ATOM
             8
               Н
                                     1.642
                                            -0.147
                                                    -0.735
                                                            1.00
                                                                  0.00
> ATOM
             9 H
                             1
                                     1.180 -1.434
                                                     0.405
                                                            1.00
                                                                 0.00
> TER
           10
                           1
```

1.6

[ese-tiank@login02 pdb]\$ cd ~
[ese-tiank@login02 ~]\$ cd data_demo/writing/data/
[ese-tiank@login02 data]\$ grep -c "But she" LittleWomen.txt
15

1.7

[ese-tiank@login02 data]\$ cd ~/data_demo/data/ [ese-tiank@login02 data]\$ du -ch 409K ./pdb 52K ./elements 1.0K ./animal-counts 721K .

1.8

[ese-tiank@login02 data]\$ cd .. [ese-tiank@login02 data_demo]\$ Is creatures data molecules north-pacific-gyre notes pizza.cfg solar.pdf temp writing [ese-tiank@login02 data_demo]\$ cp -r writing writing_new [ese-tiank@login02 data_demo]\$ Is creatures data molecules north-pacific-gyre notes solar.pdf pizza.cfg temp writing writing_new [ese-tiank@login02 data_demo]\$ zip -m -r writing_new.zip writing_new adding: writing_new/ (stored 0%) adding: writing_new/haiku.txt (deflated 29%) adding: writing_new/tools/ (stored 0%) adding: writing_new/tools/stats (stored 0%) adding: writing_new/tools/old/ (stored 0%) adding: writing_new/tools/old/oldtool (stored 0%) adding: writing_new/tools/format (deflated 13%) adding: writing_new/data/ (stored 0%) adding: writing_new/data/one.txt (deflated 53%)

```
adding: writing_new/data/LittleWomen.txt (deflated 61%)
  adding: writing new/data/two.txt (deflated 59%)
  adding: writing_new/thesis/ (stored 0%)
  adding: writing_new/thesis/empty-draft.md (stored 0%)
[ese-tiank@login02 data_demo]$ Is
creatures
           data
                  molecules
                               north-pacific-gyre
                                                    notes
                                                            pizza.cfg
                                                                       solar.pdf
                                                                                   temp
writing writing new.zip
[ese-tiank@login02 data_demo]$ unzip writing_new.zip
Archive: writing_new.zip
   creating: writing_new/
  inflating: writing new/haiku.txt
   creating: writing_new/tools/
 extracting: writing_new/tools/stats
   creating: writing_new/tools/old/
 extracting: writing_new/tools/old/oldtool
  inflating: writing new/tools/format
   creating: writing_new/data/
  inflating: writing new/data/one.txt
  inflating: writing_new/data/LittleWomen.txt
  inflating: writing_new/data/two.txt
   creating: writing_new/thesis/
 extracting: writing_new/thesis/empty-draft.md
[ese-tiank@login02 data demo]$ Is
creatures data molecules
                             north-pacific-gyre notes
                                                            pizza.cfg
                                                                       solar.pdf
                                                                                   temp
writing writing_new writing_new.zip
1.9
[ese-tiank@login02 data_demo]$ chmod 750 writing_new
[ese-tiank@login02 data_demo]$ ||
total 645
                                   4096 Dec 2 17:56 creatures
drwxr-xr-x 2 ese-tiank ese-ouycc
                                   4096 Dec 2 17:56 data
drwxr-xr-x 5 ese-tiank ese-ouycc
drwxr-xr-x 2 ese-tiank ese-ouycc
                                   4096 Dec 2 21:34 molecules
drwxr-xr-x 3 ese-tiank ese-ouycc
                                   4096 Dec 2 17:56 north-pacific-gyre
                                     76 Dec 2 17:56 notes
-rwxr-xr-x 1 ese-tiank ese-ouycc
-rwxr-xr-x 1 ese-tiank ese-ouycc
                                     32 Dec 2 17:56 pizza.cfg
-rwxr-xr-x 1 ese-tiank ese-ouycc 21583 Dec 2 17:56 solar.pdf
-rw-r--r-- 1 ese-tiank ese-ouycc
                                     20 Dec 2 17:56 temp
drwxr-xr-x 5 ese-tiank ese-ouycc
                                   4096 Dec 2 17:56 writing
drwxr-x--- 5 ese-tiank ese-ouycc
                                   4096 Dec 2 21:59 writing_new
-rw-r--r-- 1 ese-tiank ese-ouycc 422584 Dec 2 22:00 writing_new.zip
```

1.10

[ese-tiank@login02 data_demo]\$ history 10

```
34
   ls
35
    cp -r writing writing new
36
37
    zip -m -r writing_new.zip writing_new
38
39
    unzip writing_new.zip
40
    chmod 750 writing_new
41
42
43
    history 10
```

输出截图如下:

```
[ese-tiank@login02 ~]$ ln -s data_demo data_demo_link
[ese-tiank@login02 ~]$ ls
data_demo data_demo_link exam
[ese-tiank@login02 ~]$ echo $(pwd)
/work/ese-tiank
[ese-tiank@login02 ~]$ cd data_demo/molecules/
[ese-tiank@login02 molecules]$ touch test.pdb
[ese-tiank@login02 molecules]$ ls
cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb test.pdb
[ese-tiank@login02 molecules]$ cd ../data/elements/
```

```
[ese-tiank@login02 elements]$ find . -type f | wc -l
103

[ese-tiank@login02 elements]$ cd /pdb/
```

```
[ese-tiank@login02 elements]$ cd ../pdb/
[ese-tiank@login02 pdb]$ diff -q ethane.pdb ethanol.pdb
```

```
[ese-tiank@login02 pdb]$ diff ethane.pdb ethanol.pdb
1,11c1,12
< COMPND
               ETHANE
< AUTHOR
               DAVE WOODCOCK 95 12 18
                                                      -0.141
                                     -0.752
< ATOM
                             1
                                               0.001
                                                               1.00
                                                                     0.00
             1
                C
                                              -0.001
             23
                C
                                                                      0.00
< ATOM
                                      0.752
                                                       0.141
                                                               1.00
                                     -1.158
< ATOM
                Н
                                               0.991
                                                       0.070
                                                               1.00
                                                                      0.00
                             1
                                              -0.737
             4
                Н
                                     -1.240
< ATOM
                                                       0.496
                                                               1.00
                                                                      0.00
                                              -0.249
             5
                                     -0.924
< ATOM
                Н
                             1
                                                       -1.188
                                                               1.00
                                                                      0.00
< ATOM
             6
                Н
                                      1.158
                                              -0.991
                                                       -0.070
                                                               1.00
                                                                      0.00
             7
< ATOM
                Н
                                      0.924
                                               0.249
                                                       1.188
                                                               1.00
                                                                      0.00
                             1
                                      1.240
< ATOM
             8
                Н
                                               0.737
                                                       -0.496
                                                               1.00
                                                                      0.00
             9
< TER
> COMPND
               ETHANOL
               DAVE WOODCOCK
                               96 01 03
> AUTHOR
> ATOM
                                     -0.426
                                              -0.115
                                                       -0.147
                                                               1.00
             1
                             1
                                                                      0.00
                C
                                              1.244
             2
3
> ATOM
                0
                             1
                                     -0.599
                                                       -0.481
                                                               1.00
                                                                      0.00
> ATOM
                                     -0.750
                                              -0.738
                                                       -0.981
                                                               1.00
                                                                      0.00
                             1
                Н
> ATOM
             4
                             1
                                     -1.022
                                              -0.351
                                                       0.735
                                                               1.00
                                                                      0.00
                                              1.434
             5
                                     -1.642
                                                       -0.689
> ATOM
                             1
                                                               1.00
                                                                      0.00
             6
                C
                             1
                                      1.047
                                              -0.383
                                                       0.147
                                                               1.00
                                                                      0.00
> ATOM
                                              0.240
             7
                Н
                                                       0.981
                                                                      0.00
> ATOM
                             1
                                      1.370
                                                               1.00
             8
                                              -0.147
 MOTA
                Н
                             1
                                      1.642
                                                       -0.735
                                                               1.00
                                                                      0.00
             9
                Н
                             1
                                      1.180
                                              -1.434
                                                       0.405
  ATOM
                                                               1.00
                                                                      0.00
  TER
            10
```

```
[ese-tiank@login02 pdb]$ cd ~
[ese-tiank@login02 ~]$ cd data_demo/writing/data/
[ese-tiank@login02 data]$ grep -F "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
[ese-tiank@login02 data]$ grep -c "But she" LittleWomen.txt
15
[ese-tiank@login02 data]$ cd ~/data_demo/data/
```

```
[ese-tiank@login02 data]$ du -ch
409K ./pdb
52K ./elements
1.0K ./animal-counts
721K .
721K total
[ese-tiank@login02 data]$ cd ..
[ese-tiank@login02 data_demo]$ ls
creatures data molecules north-pacific-gyre notes pizza.cfg solar.pdf temp writing
[ese-tiank@login02 data_demo]$ ls
creatures data molecules north-pacific-gyre notes pizza.cfg solar.pdf temp writing
[ese-tiank@login02 data_demo]$ ls
creatures data molecules north-pacific-gyre notes pizza.cfg solar.pdf temp writing_new
[ese-tiank@login02 data_demo]$ zip -m -r writing_new.zip writing_new
adding: writing_new/ (stored 0%)
adding: writing_new/haiku.txt (deflated 29%)
adding: writing_new/tools/ (stored 0%)
adding: writing_new/tools/old/ (stored 0%)
adding: writing_new/tools/old/ (stored 0%)
adding: writing_new/tools/old/oldtool (stored 0%)
adding: writing_new/tools/old/oldtool (stored 0%)
adding: writing_new/data/ (stored 0%)
adding: writing_new/data/two.txt (deflated 55%)
adding: writing_new/data/two.txt (deflated 59%)
adding: writing_new/thesis/ (stored 0%)
adding: writing_new/thesis/ (stored 0%)
adding: writing_new/thesis/ (stored 0%)
```

```
[ese-tiank@login02 data_demo]$ is creatures data molecules north-pacific-gyre notes pizza.cfg solar.pdf temp writing writing_new.zip [ese-tiank@login02 data_demo]$ unzip writing_new.zip Archive: writing_new.zip creating: writing_new/
inflating: writing_new/hools/
extracting: writing_new/tools/
extracting: writing_new/tools/stats creating: writing_new/tools/old/
extracting: writing_new/tools/old/oldtool inflating: writing_new/tools/format creating: writing_new/dools/format creating: writing_new/data/
inflating: writing_new/data/
inflating: writing_new/data/LittleWomen.txt inflating: writing_new/data/two.txt creating: writing_new/data/two.txt creating: writing_new/data/two.txt creating: writing_new/thesis/
extracting: writing_new/thesis/empty-draft.md
```

2、

```
[ese-tiank@login02 data_demo]$ cd data/pdb/
[ese-tiank@login02 pdb]$ nano py.sh
for file in *.pdb
do
        echo $(du -bh $file)
done
[ese-tiank@login02 pdb]$ bash py.sh
1.5K aldrin.pdb
306 ammonia.pdb
1.5K ascorbic-acid.pdb
1.1K benzaldehyde.pdb
1.8K camphene.pdb
5.0K cholesterol.pdb
1.1K cinnamaldehyde.pdb
1.7K citronellal.pdb
2.4K codeine.pdb
1.2K cubane.pdb
895 cyclobutane.pdb
1.4K cyclohexanol.pdb
695 cyclopropane.pdb
622 ethane.pdb
690 ethanol.pdb
2.4K ethylcyclohexane.pdb
765 glycol.pdb
4.2K heme.pdb
1.1K lactic-acid.pdb
```

2.6K lactose.pdb

- 11K lanoxin.pdb
- 3.4K lsd.pdb
- 2.6K maltose.pdb
- 2.2K menthol.pdb
- 422 methane.pdb
- 490 methanol.pdb
- 1.9K mint.pdb
- 2.3K morphine.pdb
- 2.1K mustard.pdb
- 1.7K nerol.pdb
- 2.7K norethindrone.pdb
- 1.8K octane.pdb
- 1.2K pentane.pdb
- 2.3K piperine.pdb
- 825 propane.pdb
- 1.3K pyridoxal.pdb
- 3.3K quinine.pdb
- 2.7K strychnine.pdb
- 1.2K styrene.pdb
- 2.6K sucrose.pdb
- 2.8K testosterone.pdb
- 2.2K thiamine.pdb
- 1.5K tnt.pdb
- 2.4K tuberin.pdb
- 2.1K tyrian-purple.pdb
- 1.4K vanillin.pdb
- 423 vinyl-chloride.pdb
- 2.9K vitamin-a.pdb

运行截图如下:

[ese-tiank@login02 data_demo]\$ cd data/pdb/

```
[ese-tiank@login02 pdb]$ nano py.sh
[ese-tiank@login02 pdb]$ bash py.sh
1.5K aldrin.pdb
306 ammonia.pdb
1.5K ascorbic-acid.pdb
1.1K benzaldehyde.pdb
1.8K camphene.pdb
5.0K cholesterol.pdb
1.1K cinnamaldehyde.pdb
1.7K citronellal.pdb
2.4K codeine.pdb
1.2K cubane.pdb
895 cyclobutane.pdb
1.4K cyclohexanol.pdb
695 cyclopropane.pdb
622 ethane.pdb
690 ethanol.pdb
2.4K ethylcyclohexane.pdb
765 glycol.pdb
4.2K heme.pdb
1.1K lactic-acid.pdb
2.6K lactose.pdb
11K lanoxin.pdb
3.4K lsd.pdb
2.6K maltose.pdb
2.2K menthol.pdb
422 methane.pdb
490 methanol.pdb
1.9K mint.pdb
2.3K morphine.pdb
2.1K mustard.pdb
1.7K nerol.pdb
2.7K norethindrone.pdb
1.8K octane.pdb
1.2K pentane.pdb
2.3K piperine.pdb
825 propane.pdb
1.3K pyridoxal.pdb
3.3K quinine.pdb
2.7K strychnine.pdb
1.2K styrene.pdb
```

2.6K sucrose.pdb
2.8K testosterone.pdb
2.2K thiamine.pdb
1.5K tnt.pdb
2.4K tuberin.pdb
2.1K tyrian-purple.pdb
1.4K vanillin.pdb
423 vinyl-chloride.pdb

2.9K vitamin-a.pdb