Assignment 05

朱慧妍 12032885

```
[ese-zhuhy@login02 ~]$ ln -s data_demo data_demo_link
[ese-zhuhy@login02 ~]$ ls
data_demo_data_demo_link exam
[ese-zhuhy@login02 ~]$ echo $USER
ese-zhuhy
[ese-zhuhy@login02 ~]$ cd data_demo/molecules/
[ese-zhuhy@login02 molecules]$ touch test.pdb
[ese-zhuhy@login02 molecules]$ ls
cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb test.pdb
[ese-zhuhy@login02 molecules]$
```

```
data_demo/ data_demo_link/
[ese-zhuhy@login02 ~]$ cd data_demo/
creatures/
                                                               writing/
                              north-pacific-gyre/ writing_new/
data/
[ese-zhuhy@login02 ~]$ cd data_demo/data/elements/
[ese-zhuhy@login02 elements]$ ls -l |grep "^-"|wc -l
103
[ese-zhuhy@login02 elements]$ cd
[ese-zhuhy@login02 ~]$ cd
data_demo/ data_demo_link/ exam/
[ese-zhuhy@login02 ~]$ cd data_demo/
                                                                                                      .ssh/
                  molecules/ writing/
north-pacific-gyre/ writing_new/
[ese-zhuhy@login02 ~]$ cd data_demo/data/
animal-counts/ elements/ pdb/
[ese-zhuhy@login02 ~]$ cd data_demo/data/pdb/

[ese-zhuhy@login02 pdb]$ diff -c ethane.pdb ethanol.pdb

*** ethane.pdb 2021-11-24 19:21:39.000000000 +0800

--- ethanol.pdb 2021-11-24 19:21:39.000000000 +0800
 COMPND
                    ETHANE
                     DAVE WOODCOCK 95 12 18
  AUTHOR
                                                                  0.001 -0.141 1.00 0.00
-0.001 0.141 1.00 0.00
  ATOM
  MOTA
                                                     -1.240 -0.737 0.496
-0.924 -0.249 -1.188
1.158 -0.991 -0.070
0.924 0.240
  ATOM
  MOTA
  MOTA
                                                                  0.249 1.188 1.00
0.737 -0.496 1.00
  ATOM
  ATOM
                                                       1.240
  TER
  END
   - 1,13 ----
  COMPND
                    ETHANOL
  AUTHOR
                     DAVE WOODCOCK 96 01 03
  ATOM
                                                      -0.599 1.244 -0.481
-0.750 -0.738 -0.981
-1.022 -0.351 0.735
                                                                                            1.00
  ATOM
                                                                                                     0.00
  ATOM
  ATOM
  ATOM
  ATOM
                                                       1.370 0.240 0.981
1.642 -0.147 -0.735
1.180 -1.434 0.405
  ATOM
  ATOM
  ATOM
  TER
  END
[ese-zhuhy@login02 pdb]$
```

```
ese-zhuhy@login02 ~]$ cd data_demo/
                                       writing/
creatures/
                   molecules/
                   north-pacific-gyre/ writing new/
[ese-zhuhy@login02 ~]$ cd data_demo/writing/data/

[ese-zhuhy@login02 data]$ grep -rn 'But she'*

LittleWomen.txt:1808:"Oh, bless you, no! But she let old Belsham rest, and when I ran back

LittleWomen.txt:2746:small quaver in her voice, "I came to thank you, sir, for..." But she
                                    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
       omen.txt:13203:aspirant for fame, with philosophic composure. But she made a wry face omen.txt:14085:her. But she can pet and comfort him after I'm gone, and so cure him
 ttleWomen.txt:16081:But she did not get it, for though he joined her and answered all her ttleWomen.txt:16912:sketchbook. But she tucked it under her arm with a sharp...
        men.txt:17939:Amy did any of these fond and foolish things. But she certainly did
           .txt:19091:grasshopper. But she would have consented if he had proposed to sing a
ese-zhuhy@login02 data]$ cd
 ese-zhuhy@login02 ~]$ cd data_demo/
             molecules/
reatures/
                                       writing/
                   north-pacific-gyre/ writing new/
lata/
[ese-zhuhy@login02 ~]$ cd data_demo/writing
           writing_new/
ese-zhuhy@login02 ~]$ cd data_demo/writing/
ese-zhuhy@login02 writing]$ du -h
       ./data
.3M
[ese-zhuhy@login02 writing]$
ese-zhuhy@login02 ~]$ cd data_demo/
ese-zhuhy@login02 data_demo]$ cp -r writing/ writing_new
[ese-zhuhy@login02 data_demo]$ ls
                             th-pacific-gyre notes pizza.cfg solar.pdf writing
[ese-zhuhy@login02 data demo]$ zip -r writing new.zip ./*
updating: creatures/ (stored 0%)
updating: creatures/basilisk.dat (deflated 59%)
updating: creatures/minotaur.dat (deflated 58%)
updating: creatures/unicorn.dat (deflated 63%)
updating: data/ (stored 0%)
updating: data/amino-acids.txt (deflated 42%)
updating: data/pdb/ (stored 0%)
updating: data/pdb/lanoxin.pdb (deflated 76%)
updating: data/pdb/methanol.pdb (deflated 63%)
updating: data/pdb/citronellal.pdb (deflated 71%)
updating: data/pdb/norethindrone.pdb (deflated 73%)
updating: data/pdb/heme.pdb (deflated 74%)
updating: data/pdb/mustard.pdb (deflated 72%)
updating: data/pdb/ammonia.pdb (deflated 57%)
updating: data/pdb/ascorbic-acid.pdb (deflated 73%)
updating: data/pdb/lactic-acid.pdb (deflated 73%)
updating: data/pdb/methane.pdb (deflated 66%)
updating: data/pdb/morphine.pdb (deflated 72%)
updating: data/pdb/piperine.pdb (deflated 71%)
```

updating: data/pdb/maltose.pdb (deflated 73%)
updating: data/pdb/testosterone.pdb (deflated 73%)
updating: data/pdb/thiamine.pdb (deflated 72%)
updating: data/pdb/quinine.pdb (deflated 77%)

updating: data/pdb/tuberin.pdb (deflated 76%)

updating: data/pdb/tyrian-purple.pdb (deflated 75%)

updating: data/pdb/cinnamaldehyde.pdb (deflated 69%)
updating: data/pdb/vitamin-a.pdb (deflated 74%)

updating: data/pdb/strychnine.pdb (deflated 73%)
updating: data/pdb/sucrose.pdb (deflated 73%)

updating: data/pdb/ethylcyclohexane.pdb (deflated 73%)

```
[ese-zhuhy@login02 data demo]$ unzip -o writing new.zip
Archive: writing_new.zip
 inflating: creatures/basilisk.dat
  inflating: creatures/minotaur.dat
  inflating: creatures/unicorn.dat
  inflating: data/amino-acids.txt
  inflating: data/pdb/lanoxin.pdb
  inflating: data/pdb/methanol.pdb
  inflating: data/pdb/citronellal.pdb
  inflating: data/pdb/norethindrone.pdb
  inflating: data/pdb/heme.pdb
  inflating: data/pdb/mustard.pdb
  inflating: data/pdb/ammonia.pdb
  inflating: data/pdb/ascorbic-acid.pdb
 inflating: data/pdb/lactic-acid.pdb
  inflating: data/pdb/methane.pdb
  inflating: data/pdb/morphine.pdb
  inflating: data/pdb/piperine.pdb
  inflating: data/pdb/maltose.pdb
  inflating: data/pdb/testosterone.pdb
  inflating: data/pdb/thiamine.pdb
  inflating: data/pdb/quinine.pdb
  inflating: data/pdb/tyrian-purple.pdb
  inflating: data/pdb/tuberin.pdb
  inflating: data/pdb/cinnamaldehyde.pdb
  inflating: data/pdb/vitamin-a.pdb
  inflating: data/pdb/ethylcyclohexane.pdb
  inflating: data/pdb/strychnine.pdb
  inflating: data/pdb/sucrose.pdb
 inflating: data/pdb/pentane.pdb
 inflating: data/pdb/nerol.pdb
 inflating: data/pdb/vinyl-chloride.pdb
  inflating: data/pdb/camphene.pdb
  inflating: data/pdb/aldrin.pdb
  inflating: data/pdb/cubane.pdb
  inflating: data/pdb/ethanol.pdb
 inflating: data/pdb/cholesterol.pdb
 inflating: data/pdb/cyclobutane.pdb
[ese-zhuhy@login02 data_demo]$ chm
[ese-zhuhy@login02 data_demo]$ ls
                       chmod 750 writing_nev
                     orth-pacific-gyre notes pizza.cfg solar.pdf writing writing_new writing_new.zip
  27 cd data_demo/
28 cp -r writing/ writing_new
    zip -r writing_new.zip
    unzip -o writing_new.zip
chmod 750 writing new
    ls
history 10
 ese-zhuhy@login02 data_demo]$
```

```
第二题需要计算文件内所有文件的大小,采用的命令是 du,用一个 bash 脚本来实行。for pdb in *.pdb do du -b $pdb
Done
```

```
rese-shunyerogino2 "15 cd data_demo/
creatures/ molecules/ writing/
data/ north-pacific-gyre/ writing_new/
[ese-zhuny@logino2 "]$ cd data_demo/data/pdb/
[ese-zhuny@logino2 pdb]$ ls
[ese-zhuhy@login02 pdb]$ 1s
aldrin.pdb cubane.pdb lactic-acid.p
ammonia.pdb cyclobutane.pdb lactose.pdb
ascorbic-acid.pdb cyclohexanol.pdb lanoxin.pdb
benzaldehyde.pdb cyclopropane.pdb loop.sh
camphene.pdb ethane.pdb lsd.pdb
cholesterol.pdb ethane.pdb maltose.pdb
cirronellal.pdb glycol.pdb methane.pdb
codeine.pdb heme.pdb methanol.pdb
[ese-zhuhy@login02 pdb]$ chmod 750 1
lactic-acid.pdb lactose.pdb lanoxin.pdb loop
[ese-zhuhy@login02 pdb]$ chmod 750 loop.sh
[ese-zhuhy@login02 pdb]$ ./loop.sh
1516 aldrin.pdb
                                                                                                                    lactic-acid.pdb mint.pdb
lactose.pdb morphine.pdb
                                                                                                                                                                                                                          pyridoxal.pdb
quinine.pdb
                                                                                                                                                                                                                                                                            tyrian-purple.pdb
vanillin.pdb
                                                                                                                                                                    mustard.pdb
nerol.pdb
                                                                                                                                                                                                                          strychnine.pdb
styrene.pdb
                                                                                                                                                                                                                                                                            vinyl-chloride.pdb
vitamin-a.pdb
                                                                                                                                                                                                                         sucrose.pdb
testosterone.pdb
                                                                                                                                                                    norethindrone.pdb
                                                                                                                                                                    octane.pdb
                                                                                                                                                                    piperine.pdb
                                                                                                                                                                                                                          tnt.pdb
                                                                                                                                                                    propane.pdb
1516 aldrin.pdb
306 ammonia.pdb
1444 ascorbic-acid.pdb
1030 benzaldehyde.pdb
 1830
5049
                    camphene.pdb
cholesterol.pdb
 1090
1694
                    cinnamaldehyde.pdb
citronellal.pdb
 2452
1158
                     codeine.pdb
cubane.pdb
 895
1384
                     cyclohexanol.pdb
cyclopropane.pdb
 695
622
                     ethane.pdb
ethanol.pdb
                     ethylcyclohexane.pdb
glycol.pdb
 2396
 765
4209
                      heme.pdb
```