# Report of assignment 5

#### 1.1 ln

```
[ese-zengwk@login02 ~]$ In -s data_demo_link ./data_demo/
[ese-zengwk@login02 ~]$ cd ./data_demo/
[ese-zengwk@login02 data_demo]$ ll
total 133
drwxr-xr-x 2 ese-zengwk ese-ouycc 4096 Nov 24 19:32 creatures
drwxr-xr-x 5 ese-zengwk ese-ouycc 4096 Nov 24 19:32 data
lrwxrwxrwx 1 ese-zengwk ese-ouycc 14 Dec 8 09:59 data_demo_link -> data_dem
                                                4096 Nov 24 19:32 molecules
18 Nov 24 19:55 myfile
drwxr-xr-x 2 ese-zengwk ese-ouycc
-rw-r--r-- 1 ese-zengwk ese-ouycc
                                               4096 Nov 24 19:32 north-pacific-gyre
drwxr-xr-x 3 ese-zengwk ese-ouycc
                                                69 Nov 24 19:32 notes
-rwxr-xr-x 1 ese-zengwk ese-ouycc
 -rwxr-xr-x 1 ese-zengwk ese-ouycc 32 Nov 24 19:32 pizza.cfg
-rwxr-xr-x 1 ese-zengwk ese-ouycc 21583 Nov 24 19:32 solar.pdf
drwxr-xr-x 2 ese-zengwk ese-ouycc 4096 Nov 24 19:53 test
drwxr-xr-x 5 ese-zengwk ese-ouycc
                                                4096 Nov 24 19:32 writing
[ese-zengwk@login02 data_demo]$ 🛮
```

#### 1.2 echo

```
[ese-zengwk@login02 data_demo]$ echo $HOME
/work/ese-zengwk
[ese-zengwk@login02 data_demo]$ ■
```

## 1.3 touch

```
[ese-zengwk@login02 data_demo]$ cd molecules/
[ese-zengwk@login02 molecules]$ touch test.pdb
[ese-zengwk@login02 molecules]$ ll
total 3
-rwxr-xr-x 1 ese-zengwk ese-ouycc 1158 Nov 24 19:32 cubane.pdb
-rwxr-xr-x 1 ese-zengwk ese-ouycc 622 Nov 24 19:32 ethane.pdb
-rwxr-xr-x 1 ese-zengwk ese-ouycc 422 Nov 24 19:32 methane.pdb
-rwxr-xr-x 1 ese-zengwk ese-ouycc 1828 Nov 24 19:32 octane.pdb
-rwxr-xr-x 1 ese-zengwk ese-ouycc 1226 Nov 24 19:32 pentane.pdb
-rwxr-xr-x 1 ese-zengwk ese-ouycc 825 Nov 24 19:32 propane.pdb
-rw-r--r-- 1 ese-zengwk ese-ouycc 0 Dec 8 10:38 test.pdb
```

1.4 find ("104" is result including hidden file, 103 is result including general files)

```
[ese-zengwk@login02 elements]$ find -type f |wc -l
103
[ese-zengwk@login02 elements]$ find |wc -l
104
[ese-zengwk@login02 elements]$ ■
```

#### 1.5 diff

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

## 1.6 grep. Count "But she" number: 15

```
[ese-zengwk@login02 ~]$ grep 'But she' data_demo/writing/data/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-zengwk@login02 ~]$ grep -n 'But she' data_demo/writing/data/LittleWomen.txt

1808:"0h, bless you, no! But she let old Belsham rest, and when I ran back
2746:small quaver in her voice, "I came to thank you, sir, for..." But she
3635:than she went. But she begged so hard, and Sallie had promised to take
4535: But she does not hunt as our darling did,
4540: But she only spits at the dogs our pet
4544: But she is not fair to see,
4879:queer thing for her to do, she doesn't act a bit like herself. But she
16081:But she did not get it, for though he joined her and answered all her
16912:sketchbook. But she tucked it under her arm with a sharp...
17939:Amy did any of these fond and foolish things. But she certainly did
19071:But she did hot get it, for though he joined her and answered soll her
16912:sketchbook. But she tucked it under her arm with a sharp...
17939:Amy did any of these fond and foolish things. But she certainly did
19071:But she did show something better than brilliancy or skill, for she
19091:grasshoppe
```

## 1.7 du (975k)

```
[ese-zengwk@login02 ~]$ du -sh data_demo/data
975K data_demo/data
[ese-zengwk@login02 ~]$ ■
```

# 1.8 cp/zip/unzip

```
[ese-zengwk@login02 ~]$ cp -r data demo/writing/ data demo/writing new
[ese-zengwk@login02 ~]$ zip -q -r data_demo/writing_new.zip data_demo/writing_ne
[ese-zengwk@login02 ~]$ zip -q -r data_demo/writing_new.zip data_demo/writing_ne
[ese-zengwk@login02 ~]$ unzip data_demo/writing_new.zip
Archive: data_demo/writing_new.zip
                                 Name
                                  creatures
                                  data
                                  data_demo
                                  molecules
                                  north-pacific-gyre
                                  test
                                  writing
                                  writing_new
                                                     wr
                                 data_demo_link
                                                    wr
                                  myfile
                                  notes
                                  pizza.cfg
                                  solar.pdf
                                writing new.zip
```

### 1.9 chmod

```
[ese-zengwk@login02 data_demo]$ chmod 750 writing_new
[ese-zengwk@login02 data_demo]$ ll
total 646
drwxr-xr-x 2 ese-zengwk ese-ouycc
                                             4096 Nov 24 19:32 creatures
                                             4096 Nov 24 19:32 data
4096 Dec 8 13:41 data_demo
14 Dec 8 09:59 data_demo_link ->
drwxr-xr-x 5 ese-zengwk ese-ouycc
drwxr-xr-x 3 ese-zengwk ese-ouycc
lrwxrwxrwx 1 ese-zengwk ese-ouycc
drwxr-xr-x 2 ese-zengwk ese-ouycc
                                             4096 Dec 8 10:38 molecules
                                              18 Nov 24 19:55 myfile
-rw-r--r-- 1 ese-zengwk ese-ouycc
                                             4096 Nov 24 19:32 north-pacific-gyre
69 Nov 24 19:32 notes
drwxr-xr-x 3 ese-zengwk ese-ouycc
-rwxr-xr-x 1 ese-zengwk ese-ouycc
                                                32 Nov 24 19:32 pizza.cfg
-rwxr-xr-x 1 ese-zengwk ese-ouycc
-rwxr-xr-x 1 ese-zengwk ese-ouycc
                                            21583 Nov 24 19:32 solar.pdf
drwxr-xr-x 2 ese-zengwk ese-ouycc
                                            4096 Nov 24 19:53 test
drwxr-xr-x 5 ese-zengwk ese-ouycc 4096 Nov 24 19:32 writing drwxr-x-- 5 ese-zengwk ese-ouycc 4096 Dec 8 13:49 writing_new -rw-r--r-- 1 ese-zengwk ese-ouycc 422844 Dec 8 13:41 writing_new.zip
```

## 1.10 history

```
[ese-zengwk@login02 data_demo]$ history 10
         zip -q -r data_demo/writing_new.zip writing_new/
zip -q -r data_demo/writing_new.zip data_demo/writing_new/
  162
  163
         unzip data_demo/writing_new.zip
  164
         cd data_demo/
  165
  166
         chmod 750 writing_new
  167
  168
         history
        history -10
history 10
  169
  170
```

#### 2. For

```
[ese-zengwk@login02 pdb]$ for file in *.pdb; do du _-sb $file; done
          aldrin.pdb
ammonia.pdb
1516
306
          ascorbic-acid.pdb
benzaldehyde.pdb
1444
1030
          camphene.pdb
cholesterol.pdb
cinnamaldehyde.pdb
1830
5049
1090
1694
          citronellal.pdb
2452
          codeine.pdb
1158
          cubane.pdb
          cyclobutane.pdb
cyclohexanol.pdb
895
1384
695
          cýclopropane.pdb
          ethane.pdb
ethanol.pdb
ethylcyclohexane.pdb
glycol.pdb
heme.pdb
lactic-acid.pdb
622
690
2396
765
4209
1064
          lactose.pdb
2562
11193
          lanoxin.pdb
3395
          lsd.pdb
2562
          maltose.pdb
          menthol.pdb
2164
          methane.pdb
methanol.pdb
422
490
          mint.pdb
morphine.pdb
1869
2288
2123
          mustard.pdb
          nerol.pdb
norethindrone.pdb
1680
2729
1828
          octane.pdb
          pentane.pdb
piperine.pdb
1226
2287
          propane.pdb
825
          pyridoxal.pdb
1256
3303
          quinine.pdb
          strychnine.pdb
2675
1159
          styrene.pdb
2562
          sucrose.pdb
2787
          testosterone.pdb
2196
1508
          thiamine.pdb
          tnt.pdb
2395
          tuberin.pdb
2103
1361
          tyrian-purple.pdb
          vánillin.pdb
```