DENG Weihao (邓伟豪)'s TA report for assignment05

SID: 12132195

Github: https://github.com/Weihaodeng/ESE5023_Assignments_12132195

Responsible TA: HUANG Hao

Grade: 29

Assignment05 Name: Weihao DENG SID:12132195

Good job and clear report! #1-1 create a link

```
[ese-dengwh@login02 ~]$ ln -s data_demo data_demo_link
[ese-dengwh@login02 ~]$ ls
data_demo data_demo_link exam
[ese-dengwh@login02 ~]$ ls -s
total 2
1 data_demo 1 data_demo_link 1 exam
```

#1-2 echo

You need to print the home directory, not the file and link names within home directory. Accordingly, 1 point was deducted. You can do that by: echo \$HOME.

```
[ese-dengwh@login02 ~]$ echo "This is the list of directories and files on this system: $(ls)"
This is the list of directories and files on this system: data_demo
data_demo_link
exam
```

#1-3 touch

```
[ese-dengwh@login02 molecules]$ touch test.pdb
[ese-dengwh@login02 molecules]$ ls
cubane.pdb ethane.pdb methane.pdb octane.pdb pentane.pdb propane.pdb test.pdb
```

#1-4 find

```
[ese-dengwh@login02 elements]$ cd ~
[ese-dengwh@login02 ~]$ cd data_demo/data/elements/
[ese-dengwh@login02 elements]$ find . -type f -print | wc -l
103
```

#1-5 diff

```
[ese-dengwh@login02 ~]$ cd data_demo
[ese-dengwh@login02 data_demo]$ cd data
[ese-dengwh@login02 data]$ cd pdb
[ese-dengwh@login02 pdb]$ diff ethane.pdb ethanol.pdb -y -W 50
COMPND
              ETHANE
                            COMPND
                                          ETHANOL
                                          DAVE WOOD
AUTHOR
              DAVE WOOD
                            AUTHOR
           1
MOTA
                            MOTA
              C
MOTA
           2
                            MOTA
                                        2
                                           0
                                           Н
MOTA
                            MOTA
MOTA
           4
              Н
                            MOTA
                                           Н
                                           Н
MOTA
                            ATOM
           6
                                        6
MOTA
                            MOTA
                                           C
MOTA
                            MOTA
                                        8
           8
MOTA
               H
                            MOTA
TER
           9
                            ATOM
                                        9
                            TER
                                       10
END
                            END
```

#1-6 grep

```
[ese-dengwh@login02 ~]$ cd data_demo] is creatures data_demo] is creatures data_demo] is molecules my_file north-pacific-gyre notes pizza.cfg solar.pdf test TEST writing [ese-dengwh@login02 data_demo] cd writing [ese-dengwh@login02 writing] is data_haiku.txt_thesis_tools [ese-dengwh@login02 writing] cd data_[ese-dengwh@login02 writing] cd data_[ese-dengwh@login02 writing] cd data_[ese-dengwh@login02 data] cone.txt_two.txt [ese-dengwh@login02 data] cone.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_two.txt_
```

#1-7 du

```
[ese-dengwh@login02 ~]$ cd data_demo
[ese-dengwh@login02 data_demo]$ cd data
[ese-dengwh@login02 data]$ ls
amino-acids.txt animal-counts animals.txt elements morse.txt pdb planets.txt salmon.txt sunspot.txt
[ese-dengwh@login02 data]$ du
407 ./pdb
52 ./elements
1 ./animal-counts
719 .
```

#1-8 cp, zip, unzip

```
[ese-dengwh@login02 ~]$ cd data_demo
[ese-dengwh@login02 data_demo]$ cp -r writing/ writing_new
[ese-dengwh@login02 data_demo]$ ls
creatures longest.sh north-pacific-gyre solar.pdf writing
data molecules notes test writing_new
data_demo_link my_file pizza.cfg TEST writing_new.zip
```

```
[ese-dengwh@login02 data_demo]$ zip -q -r writing_new.zip writing_new
[ese-dengwh@login02 data_demo]$ unzip -q -n writing_new.zip
```

#1-9 chmod

```
[ese-dengwh@login02 data_demo]$ chmod 750 writing_new
[ese-dengwh@login02 data_demo]$ ll
total 647
drwxr-xr-x 2 ese-dengwh ese-ouycc
drwxr-xr-x 5 ese-dengwh ese-ouycc
b_ltnk
-rwxr-xr-x 1 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
-rw-r--r-- 1 ese-dengwh ese-ouycc
drwxr-xr-x 3 ese-dengwh ese-ouycc
-rwxr-xr-x 1 ese-dengwh ese-ouycc
-rwxr-xr-x 1 ese-dengwh ese-ouycc
-rwxr-xr-x 1 ese-dengwh ese-ouycc
-rwxr-xr-x 1 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
-rwxr-xr-x 5 ese-dengwh ese-ouycc
drwxr-xr-x 5 ese-dengwh ese-ouycc
drwxr-xr-x 6 ese-dengwh ese-ouycc
drwxr-xr-x 7 ese-dengwh ese-ouycc
drwxr-xr-x 8 ese-dengwh ese-ouycc
drwxr-xr-x 9 ese-dengwh ese-ouycc
drwxr-xr-x 1 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
drwxr-xr-x 1 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
drwxr-xr-x 1 ese-dengwh ese-ouycc
drwxr-xr-x 2 ese-dengwh ese-ouycc
dryyr-xr-xr-x 1 ese-dengw
```

#1-10 history

```
[ese-dengwh@login02 pdb]$ history 10
  308  history
  309  history 10
  310  cd data_demo
  311  ls
  312  cd data
  313  ls
  314  cd pdb
  315  ls
  316  diff heme.pdb aldrin.pdb -y -W 50
  317  history 10
```

2. BASH for Loop

First, go to data_demo/data/pdb, and nano a .sh file named a2.sh:

```
[ese-dengwh@login02 ~]$ cd data_demo/data/pdb
[ese-dengwh@login02 pdb]$ nano a2.sh
```

And type cods in a2.sh:

```
for pdb in *.pdb
do
du -b $pdb
done
```

Then, do the following commands:

```
[ese-dengwh@login02 pdb]$ chmod 750 a2.sh
[ese-dengwh@login02 pdb]$ ./a2.sh
```

Finally, we can get the following result:

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	44400	
622	ethane.pdb	11193	lanoxin.pdb
690	ethanol.pdb	3395	lsd.pdb
2396	ethylcyclohexane.pdb	2562	maltose.pdb
765	glycol.pdb	2164	menthol.pdb
4209	heme.pdb	422	methane.pdb
1064	lactic-acid.pdb	490	methanol.pdb
2562	lactose.pdb	1869	mint.pdb
11193	lanoxin.pdb	2288	morphine.pdb
3395	lsd.pdb	2123	mustard.pdb
2562	maltose.pdb	1680	nerol.pdb
2164	menthol.pdb	2729	norethindrone.pdb
422	methane.pdb	1828	octane.pdb
490	methanol.pdb	1226	pentane.pdb
1869	mint.pdb	2287	piperine.pdb
2288	morphine.pdb	825	propane.pdb
2123	mustard.pdb	1256	pyridoxal.pdb
1680	nerol.pdb	3303	quinine.pdb
2729	norethindrone.pdb	2675	strychnine.pdb
1828		1159	styrene.pdb
1226	octane.pdb pentane.pdb	2562	sucrose.pdb
2287	piperine.pdb	2787	testosterone.pdb
825		2196	thiamine.pdb
1256	propane.pdb	1508	tnt.pdb
3303	pyridoxal.pdb quinine.pdb	2395	tuberin.pdb
2675	strychnine.pdb	2103	tyrian-purple.pdb
1159		1361	vanillin.pdb
2562	styrene.pdb	423	vinyl-chloride.pdb
2002	sucrose.pdb	2894	vitamin-a.pdb