Homework 7

April 16, 2020

[1]: ```
pwd
```

```
/home/jupyter-official-nanakai/Unisat HW
```

[2]: ```
cd
```

[3]: ```
pwd
```

```
/home/jupyter-official-nanakai
```

[4]: ```
ls -l
```

```
total 212
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
19:53  ERROR
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 176086 Apr 14
19:33 'Exam dayindyk.ipynb'
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
18:03  Lailo.txt
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:18  Leila
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    116 Apr 14
19:43  myoutput
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 10
22:38  myoutput2
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Mar 26
23:41  nanakai
drwxr-xr-x 2 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  4
02:03  new_test
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    124 Apr 14
19:46  rewmoos
lrwxrwxrwx 1 jupyter-official-nanakai jupyter-official-nanakai     16 Mar 10
11:57  shared -> /srv/data/shared
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 15
19:08  Stepik
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:02  test
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 14
```

```
19:56 'Unisat HW'
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   5323 Apr 14
18:54  Untitled.ipynb
```

Now will begin the part of commands to save files in several outputs

```
[5]: ls -l > hw1
```

```
[6]: ls -l /otirikfile > kate
```

```
ls: cannot access '/otirikfile': No such file or directory
```

```
[7]: ls -l /otirikfile 2> kate
```

```
[9]: cat hw1 #here I listed files and then saved into "hw1" STDOUT and into "kate"␣
     ↪the error
```

```
total 212
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
19:53 ERROR
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 176086 Apr 14
19:33 Exam dayindyk.ipynb
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 16
00:17 hw1
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
18:03 Lailo.txt
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:18 Leila
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    116 Apr 14
19:43 myoutput
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 10
22:38 myoutput2
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Mar 26
23:41 nanakai
drwxr-xr-x 2 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  4
02:03 new_test
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    124 Apr 14
19:46 rewmoos
lrwxrwxrwx 1 jupyter-official-nanakai jupyter-official-nanakai     16 Mar 10
11:57 shared -> /srv/data/shared
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 15
19:08 Stepik
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:02 test
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 16
```

```
00:15 Unisat HW
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   5323 Apr 14
18:54 Untitled.ipynb
```

[16]: `ls -l|head -5|tail hw1 #task 2`

```
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    116 Apr 14
19:43 myoutput
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 10
22:38 myoutput2
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Mar 26
23:41 nanakai
drwxr-xr-x 2 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  4
02:03 new_test
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    124 Apr 14
19:46 rewmoos
lrwxrwxrwx 1 jupyter-official-nanakai jupyter-official-nanakai     16 Mar 10
11:57 shared -> /srv/data/shared
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 15
19:08 Stepik
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:02 test
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 16
00:15 Unisat HW
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   5323 Apr 14
18:54 Untitled.ipynb
head: write error: Broken pipe
```

[18]: `tac hw1`

```
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   5323 Apr 14
18:54 Untitled.ipynb
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 16
00:15 Unisat HW
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:02 test
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 15
19:08 Stepik
lrwxrwxrwx 1 jupyter-official-nanakai jupyter-official-nanakai     16 Mar 10
11:57 shared -> /srv/data/shared
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    124 Apr 14
19:46 rewmoos
drwxr-xr-x 2 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  4
02:03 new_test
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Mar 26
23:41 nanakai
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 10
22:38 myoutput2
```

```
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    116 Apr 14
19:43 myoutput
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:18 Leila
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
18:03 Lailo.txt
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 16
00:17 hw1
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 176086 Apr 14
19:33 Exam dayindyk.ipynb
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
19:53 ERROR
total 212
```

[ ]: `cat|ls -l hw1|sort hw1 #TASK 3`

```
drwxr-xr-x 2 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  4
02:03 new_test
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 15
19:08 Stepik
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr 16
00:15 Unisat HW
drwxr-xr-x 3 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:02 test
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Apr  8
20:18 Leila
drwxr-xr-x 4 jupyter-official-nanakai jupyter-official-nanakai   4096 Mar 26
23:41 nanakai
lrwxrwxrwx 1 jupyter-official-nanakai jupyter-official-nanakai     16 Mar 10
11:57 shared -> /srv/data/shared
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 10
22:38 myoutput2
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
18:03 Lailo.txt
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 14
19:53 ERROR
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai      0 Apr 16
00:17 hw1
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    116 Apr 14
19:43 myoutput
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai    124 Apr 14
19:46 rewmoos
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 176086 Apr 14
19:33 Exam dayindyk.ipynb
-rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   5323 Apr 14
18:54 Untitled.ipynb
total 212
ls: write error: Broken pipe
```

```
[1]: ls -l hw1 >> newhw
```

    ls: cannot access 'hw1': No such file or directory

```
[1]: echo hw1
```

    hw1

```
[7]: echo hw1 >> newhw #task 4 APPEND
```

```
[3]: cat newhw
```

    hw1

```
[4]: wc -l newhw
```

    1 newhw

```
[5]: wc -l < newhw >> newhw2
```

```
[6]: ls -l
```

    total 124
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   588 Apr 10
    20:50 14.txt
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 45827 Apr 8
    21:10 'Homework 5.ipynb'
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 51839 Apr 10
    22:40 'Homework 6.ipynb'
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai 11276 Apr 16
    14:16 'Homework 7.ipynb'
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   4 Apr 16
    14:17 newhw
    -rw-r--r-- 1 jupyter-official-nanakai jupyter-official-nanakai   2 Apr 16
    14:18 newhw2

```
[9]: #TASK 2 LIST ONLY 20th last lines in /etc
```

```
[10]: cd
```

```
[11]: pwd
```

    /home/jupyter-official-nanakai

```
[12]: ls
```

```
ERROR                Lailo.txt   nanakai    Stepik
'Exam dayindyk.ipynb'  Leila       new_test    test
hw1                  myoutput    rewmoos    'Unisat HW'
kate                 myoutput2   shared     Untitled.ipynb
```

[13]: `ls -a`

```
.                ERROR                 kate       myoutput2  Stepik
..               'Exam dayindyk.ipynb'  Lailo.txt  nanakai    test
.bash_history    hw1                   Leila      new_test    'Unisat HW'
.bash_logout     .ipynb_checkpoints    .lesshst   .profile    Untitled.ipynb
.bashrc          .ipython              .local     rewmoos
.cache           .jupyter              myoutput   shared
```

[14]: `cd /`

[15]: `ls`

```
bin     etc              lib          mkdir   root   srv        usr
boot    home             lib64        mnt     run    swap.img   var
cdrom   initrd.img       lost+found   opt     sbin   sys        vmlinuz
dev     initrd.img.old   media        proc    snap   tmp        vmlinuz.old
```

[16]: `cd etc`

[22]: `ls -l | tail -n 20`

```
drwxr-xr-x 2 root root       4096 Feb  3 18:23 terminfo
drwxr-xr-x 8 root root       4096 Mar 21 14:13 texmf
drwxr-xr-x 2 root root       4096 Mar  6 20:33 thermald
-rw-r--r-- 1 root root          8 Feb  3 18:23 timezone
drwxr-xr-x 2 root root       4096 Feb  3 18:23 tmpfiles.d
-rw-r--r-- 1 root root       1260 Feb 26  2018 ucf.conf
drwxr-xr-x 4 root root       4096 Mar  6 20:43 udev
drwxr-xr-x 3 root root       4096 Feb  3 18:24 ufw
-rw-r--r-- 1 root root        403 Mar  1  2018 updatedb.conf
drwxr-xr-x 3 root root       4096 Feb  3 18:24 update-manager
drwxr-xr-x 2 root root       4096 Mar  6 20:43 update-motd.d
drwxr-xr-x 2 root root       4096 May 24  2019 update-notifier
drwxr-xr-x 2 root root       4096 Mar 25 06:17 vim
drwxr-xr-x 4 root root       4096 Feb  3 18:24 vmware-tools
lrwxrwxrwx 1 root root         23 Feb  3 18:22 vtrgb -> /etc/alternatives/vtrgb
-rw-r--r-- 1 root root       4942 Apr  8  2019 wgetrc
drwxr-xr-x 8 root root       4096 Mar 21 14:13 X11
drwxr-xr-x 4 root root       4096 Feb  3 18:22 xdg
drwxr-xr-x 2 root root       4096 Mar  6 20:45 zsh
-rw-r--r-- 1 root root        477 Mar 16  2018 zsh_command_not_found
```

```
[21]:  man tail
```

NAME
       tail - output the last part of files

SYNOPSIS
       tail [OPTION]… [FILE]…

DESCRIPTION
       Print the last 10 lines of each FILE to standard output. With more
       than one FILE, precede each with a header giving the file name.

       With no FILE, or when FILE is -, read standard input.

       Mandatory arguments to long options are mandatory for short options
       too.

       -c, --bytes=[+]NUM
              output the last NUM bytes; or use -c +NUM to output starting
              with byte NUM of each file

       -f, --follow[={name|descriptor}]
              output appended data as the file grows;

              an absent option argument means 'descriptor'

       -F   same as --follow=name --retry

       -n, --lines=[+]NUM
              output the last NUM lines, instead of the last 10; or use -n
              +NUM to output starting with line NUM

       --max-unchanged-stats=N
              with --follow=name, reopen a FILE which has not

              changed size after N (default 5) iterations to see if it has
              been unlinked or renamed (this is the usual case of rotated log
              files); with inotify, this option is rarely useful

       --pid=PID
              with -f, terminate after process ID, PID dies

       -q, --quiet, --silent
              never output headers giving file names

```
--retry
        keep trying to open a file if it is inaccessible

-s, --sleep-interval=N
        with -f, sleep for approximately N seconds (default 1.0) between
        iterations; with inotify and --pid=P, check process P  at  least
        once every N seconds

-v, --verbose
        always output headers giving file names

-z, --zero-terminated
        line delimiter is NUL, not newline

--help display this help and exit

--version
        output version information and exit

NUM may have a multiplier suffix: b 512, kB 1000, K 1024, MB 1000*1000,
M 1024*1024, GB 1000*1000*1000, G 1024*1024*1024, and so on for  T,  P,
E, Z, Y.

With  --follow  (-f),  tail  defaults to following the file descriptor,
which means that even if a tail'ed file is renamed, tail will  continue
to  track  its  end.   This  default behavior is not desirable when you
really want to track the actual name of the file, not the file descrip-
tor (e.g., log rotation).  Use --follow=name in that case.  That causes
tail to track the named file  in  a  way  that  accommodates  renaming,
removal and creation.
```

AUTHOR
        Written by Paul Rubin, David MacKenzie, Ian Lance Taylor, and Jim Mey-
        ering.

REPORTING BUGS
        GNU coreutils online help: <http://www.gnu.org/software/coreutils/>
        Report tail translation bugs to <http://translationproject.org/team/>

COPYRIGHT
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        GPL version 3 or later <http://gnu.org/licenses/gpl.html>.
        This is free software: you are free to change and redistribute it.
        There is NO WARRANTY, to the extent permitted by law.

SEE ALSO
        head(1)

```
       Full documentation at: <http://www.gnu.org/software/coreutils/tail>
       or available locally via: info '(coreutils) tail invocation'

   GNU coreutils 8.28              January 2018                    TAIL(1)
```

[23]: `ls -l | tail -n 20 |wc -l`

```
20
```

[24]: `date`

```
Thu Apr 16 14:22:37 UTC 2020
```

[ ]: