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Assignment 1

1. Change your password to a password you would like to use for the remainder of the semester.

```
tanmaypol@Tanmay-laptop:~$ passwd
Changing password for tanmaypol.
Current password:
New password:
Retype new password:
passwd: password updated successfully
```

2. Display the system's date.

```
tanmaypol@Tanmay-laptop:~$ date
Thu Sep 15 21:01:50 IST 2022
tanmaypol@Tanmay-laptop:~$ cal
    September 2022
Su Mo Tu We Th Fr Sa
             1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
```

3. Count the number of lines in the /etc/passwd file.

```
tanmaypol@Tanmay-laptop:~$ wc /etc/passwd
  31    43 1645 /etc/passwd
tanmaypol@Tanmay-laptop:~$
```

4. Find out who else is on the system.

```
tanmaypol@Tanmay-laptop:~$ w
 21:04:43 up 9 min,  0 users,  load average: 0.00, 0.00, 0.00
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
tanmaypol@Tanmay-laptop:~$
```

5. Direct the output of the man pages for the date command to a file named *mydate*.

```
tanmaypol@Tanmay-laptop:~$ man date>mynewdate
tanmaypol@Tanmay-laptop:~$ cat mynewdate
DATE(1)                          User Commands                          DATE(1)

NAME
       date - print or set the system date and time

SYNOPSIS
       date [OPTION]... [+FORMAT]
       date [-u|--utc|--universal] [MMDDhhmm[[CC]YY][.ss]]

DESCRIPTION
       Display the current time in the given FORMAT, or set the system date.

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

       -d, --date=STRING
              display time described by STRING, not 'now'

       --debug
              annotate  the  parsed  date,  and  warn about questionable usage to
              stderr

       -f, --file=DATEFILE
              like --date; once for each line of DATEFILE

       -I[FMT], --iso-8601[=FMT]
              output date/time in ISO 8601 format.   FMT='date' for date only (the
              default),  'hours', 'minutes', 'seconds', or 'ns' for date and time
              to the indicated precision.  Example: 2006-08-14T02:34:56-06:00

       -R, --rfc-email
              output date and time in RFC 5322 format.  Example: Mon, 14 Aug 2006
              02:34:56 -0600

       --rfc-3339=FMT
              output  date/time  in  RFC  3339 format.  FMT='date', 'seconds', or
              'ns' for date  and  time  to  the  indicated  precision.   Example:
              2006-08-14 02:34:56-06:00
```

6. Create a subdirectory called *mydir*.

```
tanmaypol@Tanmay-laptop:~$ mkdir mynew2dir
tanmaypol@Tanmay-laptop:~$ ls
arr.sh            gn.sh      mydate.txt  mynewdate  outputfile.txt
caloperations     medir      mydir       mynewdir   pn.sh
caloperations.sh  minedir    mynew2dir   oe.sh      pn.sh.save
```

7. Move the file *mydate* into the new subdirectory.

```
tanmaypol@Tanmay-laptop:~$ mv mynewdate mynew2dir/
tanmaypol@Tanmay-laptop:~$ ls
arr.sh            gn.sh      mydate.txt  mynewdir        pn.sh
caloperations     medir      mydir       oe.sh           pn.sh.save
caloperations.sh  minedir    mynew2dir   outputfile.txt
```

8. Go to the subdirectory *mydir* and copy the file *mydate* to a new file called *ourdate*

```
tanmaypol@Tanmay-laptop:~$ cd mynew2dir
tanmaypol@Tanmay-laptop:~/mynew2dir$ cp mynewdate ourdate
tanmaypol@Tanmay-laptop:~/mynew2dir$ ls .
mynewdate   ourdate
```

9. List the contents of *mydir*.

```
tanmaypol@Tanmay-laptop:~/mynew2dir$ ls
mynewdate   ourdate
```

10. Do a long listing on the file *ourdate* and note the permissions.

```
tanmaypol@Tanmay-laptop:~/mynew2dir$ ls -l ourdate
-rw-r--r-- 1 tanmaypol tanmaypol 6384 Sep 15 21:19 ourdate
```

11. Display the name of the current directory starting from the root.

```
tanmaypol@Tanmay-laptop:~/mynew2dir$ pwd
/home/tanmaypol/mynew2dir
```

12. Move the files in the directory *mydir* back to the HOME directory.

```
tanmaypol@Tanmay-laptop:~/mynew2dir$ mv mynewdate ourdate ~/
tanmaypol@Tanmay-laptop:~/mynew2dir$ cd
tanmaypol@Tanmay-laptop:~$ ls
arr.sh             gn.sh    mydate.txt  mynewdate  ourdate        pn.sh.save
caloperations      medir    mydir       mynewdir   outputfile.txt
caloperations.sh   minedir  mynew2dir   oe.sh      pn.sh
```

13. List all the files in your HOME directory.

```
tanmaypol@Tanmay-laptop:~$ ls
arr.sh             gn.sh    mydate.txt  mynewdate  ourdate        pn.sh.save
caloperations      medir    mydir       mynewdir   outputfile.txt
caloperations.sh   minedir  mynew2dir   oe.sh      pn.sh
```

14. Display the first 5 lines of *mydate*.

```
tanmaypol@Tanmay-laptop:~$ head -5 mynewdate | tail +0
DATE(1)                        User Commands                        DATE(1)

NAME
       date - print or set the system date and time
```

15. Display the last 8 lines of *mydate*.

```
tanmaypol@Tanmay-laptop:~$ head -5 mynewdate | tail +0
DATE(1)                           User Commands                           DATE(1)

NAME
       date - print or set the system date and time

tanmaypol@Tanmay-laptop:~$ tail -8 mynewdate
       This is free software: you are free to change and redistribute it.    There
       is NO WARRANTY, to the extent permitted by law.

SEE ALSO
       Full documentation at: <https://www.gnu.org/software/coreutils/date>
       or available locally via: info '(coreutils) date invocation'

GNU coreutils 8.30                  September 2019                         DATE(1)
```

16. Remove the directory *mydir*.

```
tanmaypol@Tanmay-laptop:~$ ls
arr.sh              gn.sh     mydate.txt  mynewdate  ourdate        pn.sh.save
caloperations       medir     mydir       mynewdir   outputfile.txt
caloperations.sh    minedir   mynew2dir   oe.sh      pn.sh
tanmaypol@Tanmay-laptop:~$ rmdir mynew2dir
tanmaypol@Tanmay-laptop:~$ ls
arr.sh              gn.sh     mydate.txt  mynewdir   outputfile.txt
caloperations       medir     mydir       oe.sh      pn.sh
caloperations.sh    minedir   mynewdate   ourdate    pn.sh.save
```

17. Redirect the output of the long listing of files to a file named *list*.

```
tanmaypol@Tanmay-laptop:~$ la -l >>list
tanmaypol@Tanmay-laptop:~$ ls
arr.sh              gn.sh   minedir      mynewdate   ourdate          pn.sh.save
caloperations       list    mydate.txt   mynewdir    outputfile.txt
caloperations.sh    medir   mydir        oe.sh       pn.sh
tanmaypol@Tanmay-laptop:~$ cat list
total 104
-rw------- 1 tanmaypol tanmaypol  1550 Sep 15 21:09 .bash_history
-rw-r--r-- 1 tanmaypol tanmaypol   220 Sep  9 10:01 .bash_logout
-rw-r--r-- 1 tanmaypol tanmaypol  3771 Sep  9 10:01 .bashrc
drwxr-xr-x 2 tanmaypol tanmaypol  4096 Sep  9 10:02 .landscape
drwxr-xr-x 3 tanmaypol tanmaypol  4096 Sep 12 10:21 .local
-rw-r--r-- 1 tanmaypol tanmaypol     0 Sep 15 20:55 .motd_shown
-rw-r--r-- 1 tanmaypol tanmaypol   807 Sep  9 10:01 .profile
-rw-r--r-- 1 tanmaypol tanmaypol   162 Sep 12 11:04 arr.sh
-rw-r--r-- 1 tanmaypol tanmaypol     0 Sep 12 10:20 caloperations
-rw-r--r-- 1 tanmaypol tanmaypol   651 Sep 12 10:49 caloperations.sh
-rw-r--r-- 1 tanmaypol tanmaypol   246 Sep 12 12:07 gn.sh
-rw-r--r-- 1 tanmaypol tanmaypol     0 Sep 15 21:39 list
drwxr-xr-x 2 tanmaypol tanmaypol  4096 Sep 12 00:30 medir
drwxr-xr-x 2 tanmaypol tanmaypol  4096 Sep 12 00:30 minedir
-rw-r--r-- 1 tanmaypol tanmaypol    26 Sep 12 00:33 mydate.txt
drwxr-xr-x 2 tanmaypol tanmaypol  4096 Sep 15 21:08 mydir
-rw-r--r-- 1 tanmaypol tanmaypol  6384 Sep 15 21:10 mynewdate
drwxr-xr-x 2 tanmaypol tanmaypol  4096 Sep 15 21:07 mynewdir
-rw-r--r-- 1 tanmaypol tanmaypol   194 Sep 12 11:54 oe.sh
-rw-r--r-- 1 tanmaypol tanmaypol  6384 Sep 15 21:19 ourdate
-rw-r--r-- 1 tanmaypol tanmaypol 19131 Sep 12 00:27 outputfile.txt
-rw-r--r-- 1 tanmaypol tanmaypol   229 Sep 12 11:31 pn.sh
-rw-r--r-- 1 tanmaypol tanmaypol     1 Sep 12 12:30 pn.sh.save
```