

Laboratory work No. 5

Customizing the working environment

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Information

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- Every programmer needs the skill of using Unix system at the command line level to work faster and more efficiently.

Purpose of the work

To acquire practical skills of interacting with the system via the command line

Tasks

1. determine the full name of the home directory
2. Using `cd` and `ls`
3. Using `man`
4. Using `history`

Determine the full name of the home directory

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ echo $HOME  
/home/eakarpova
```

Using cd and ls

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ cd /tmp
```

. 1: Moving to the tmp directory

Using cd and ls

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:/tmp$ ls
plasma-csd-generator.oYGJhx
sddm-auth-72c33576-81d0-4eae-9db5-5fde249d2b98
snap-private-tmp
ssh-er4Xo6qyn7hl
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-bluetooth.service-2jPMZG
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-fwupd.service-0IOdi4
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-ilo-sensor-proxy.service-DHYbWd
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-ModemManager.service-DguEtW
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-polkit.service-JPWIBC
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-power-profiles-daemon.service-23EbJ0
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-switcheroo-control.service-1RR4WH
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-logind.service-gsaAvi
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-resolved.service-K3PjwZ
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-timesyncd.service-NFH2sk
systemd-private-e9216ab4b8be43159c82b44ae60ef5a-upower.service-5s84gi
tmp.fBgedsr8Wn
xauth-1000-._0
xauth_DHaziY
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:/tmp$ ls -l
total 68
drwx----- 2 eakarpova eakarpova 4096 map 11 16:21 plasma-csd-generator.oYGJhx
srwxr-xr-x 1 root      root      0 map 11 16:21 sddm-auth-72c33576-81d0-4eae-9db5-5fde249d2b98
drwx----- 3 root      root      4096 map 11 16:21 snap-private-tmp
drwx----- 2 eakarpova eakarpova 4096 map 11 16:21 ssh-er4Xo6qyn7hl
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-bluetooth.service-2jPMZG
drwx----- 3 root      root      4096 map 11 13:23 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-fwupd.service-0IOdi4
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-ilo-sensor-proxy.service-DHYbWd
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-ModemManager.service-DguEtW
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-polkit.service-JPWIBC
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-power-profiles-daemon.service-23EbJ0
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-switcheroo-control.service-1RR4WH
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-logind.service-gsaAvi
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-resolved.service-K3PjwZ
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-systemd-timesyncd.service-NFH2sk
drwx----- 3 root      root      4096 map 11 16:21 systemd-private-e9216ab4b8be43159c82b44ae60ef5a-upower.service-5s84gi
```

Creating and deleting directories

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/newdir$ cd ~  
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ mkdir letters memos misk  
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ rm -r letters memos misk
```

Man command

```
RMDIR(1)                                User Commands                                RMDIR(1)

NAME
    rmdir - remove empty directories

SYNOPSIS
    rmdir [OPTION]... DIRECTORY...

DESCRIPTION
    Remove the DIRECTORY(ies), if they are empty.

    --ignore-fail-on-non-empty
        ignore each failure that is solely because a directory is non-empty

    -p, --parents
        remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b/c' is similar to 'rmdir
        a/b/c a/b a'

    -v, --verbose
        output a diagnostic for every directory processed

    --help display this help and exit

    --version
        output version information and exit

AUTHOR
```

The history command

```
509 ls
510 cd ~
511 ls
512 ls -l
513 mkdir newdir
514 cd newdir
515 mkdir morefun
516 mkdir letters memos misk
517 rm -r letters memos misk
518 cd ~
519 mkdir letters memos misk
520 rm -r letters memos misk
521 rm -r newdir
522 mkdir newdir
523 rm newdir
524 rm -r newdir
525 man ls
526 ls --help
527 0
528 man ls
529 man cd
530 man pwd
531 man mkdir
532 man rmdir
533 man rm
534 history
```

The history command

```
509 ls
510 cd ~
511 ls
512 ls -l
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519 mkdir letters memos misk
520 rm -r letters memos misk
521 rm -r newdir
522 mkdir newdir
523 rm newdir
524 rm -r newdir
525 man ls
526 ls --help
527 0
528 man ls
529 man cd
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```


During the laboratory work I acquired practical skills of interacting with the system via the command line