# Отчёт по лабораторной работе №6

Основы интерфейса взаимодействия пользователя с системой Unix на уровне командной строки

Седохин Даниил Алексеевич

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## 1 Цель работы

Приобретение практических навыков взаимодействия пользователя с системой по- средством командной строки.

# 2 Задание

Приобрести практические навыки работы пользователя с системой посредством командной строки

### 3 Выполнение лабораторной работы

1) Определим полное имя домашнего каталога. (рис. 3.1).

```
[sdaniil@sdaniil ~]$ pwd
/home/sdaniil
[sdaniil@sdaniil ~]$
```

Рис. 3.1: Определение имени домашнего каталога

2) Перейдем в каталог/tmp

Выведем на экран содержимое каталога /tmp. Для этого используйте команду ls с различными опциями (рис. 3.2 3.3).

```
[sdaniil@sdaniil ~]$ cd /tmp
[sdaniil@sdaniil tmp]$ ls
sddm-auth-1b042dc6-40d2-4e74-81b1-92da33ce406e
sddm--Slpplp
systemd-private-414f1c2cf627444aade704e67034e6e9-chronyd.service-zkuzHZ
systemd-private-414f1c2cf627444aade704e67034e6e9-dbus-broker.service-hcqUaN
systemd-private-414f1c2cf627444aade704e67034e6e9-ModemManager.service-On1skN
systemd-private-414f1c2cf627444aade704e67034e6e9-polkit.service-QvAY48
systemd-private-414f1c2cf627444aade704e67034e6e9-power-profiles-daemon.service-
Kdf180
systemd-private-414f1c2cf627444aade704e67034e6e9-rtkit-daemon.service-WnHkaW
systemd-private-414f1c2cf627444aade704e67034e6e9-switcheroo-control.service-ytr
oKI
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-logind.service-C8Vq10
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-oomd.service-LXmqju
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-resolved.service-EmG2d
systemd-private-414f1c2cf627444aade704e67034e6e9-upower.service-JpVCWW
Temp-ae95f008-be1f-4e18-8ee1-004a264410db
vboxquest-Module.symvers
[sdaniil@sdaniil tmp]$ ls -a
font-unix
ICE-unix
sddm-auth-1b042dc6-40d2-4e74-81b1-92da33ce406e
sddm--Slpplp
systemd-private-414f1c2cf627444aade704e67034e6e9-chronyd.service-zkuzHZ
systemd-private-414f1c2cf627444aade704e67034e6e9-dbus-broker.service-hcqUaN
systemd-private-414f1c2cf627444aade704e67034e6e9-ModemManager.service-On1skN
systemd-private-414f1c2cf627444aade704e67034e6e9-polkit.service-QvAY48
systemd-private-414f1c2cf627444aade704e67034e6e9-power-profiles-daemon.service-
systemd-private-414f1c2cf627444aade704e67034e6e9-rtkit-daemon.service-WnHkaW
systemd-private-414f1c2cf627444aade704e67034e6e9-switcheroo-control.service-ytr
oKI
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-logind.service-C8Vq10
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-oomd.service-LXmqju
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-resolved.service-EmG2
```

Рис. 3.2: Вывод на экран содержимого каталога /tmp

```
[sdaniil@sdaniil tmp]$ ls -l
итого 28
                                0 мар 16 16:53 sddm-auth-1b042dc6-40d2-4e74-8
srwxr-xr-x. 1 root
                    root
1b1-92da33ce406e
srwx-----, 1 sddm sddm
drwx-----, 3 root root
                               0 мар 16 16:53 sddm--Slpplp
                               60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-chronyd.service-zkuzHZ
drwx----. 3 root root
                               60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-dbus-broker.service-hcqUaN
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-ModemManager.service-On1skN
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-polkit.service-QvAY48
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-power-profiles-daemon.service-Kdfi80
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-rtkit-daemon.service-WnHkaW
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-switcheroo-control.service-ytroKI
drwx-----. 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-systemd-logind.service-C8Vql0
drwx-----. 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-systemd-oomd.service-LXmqju
drwx----- 3 root root 60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-systemd-resolved.service-EmG2dL
drwx----. 3 root
                   root
                               60 map 16 16:52 systemd-private-414f1c2cf62744
4aade704e67034e6e9-upower.service-JpVCWW
drwx-----. 2 sdaniil sdaniil 40 map 16 16:56 Temp-ae95f008-be1f-4e18-8ee1-0
04a264410db
-rw-r--r--. 1 root
                            28086 map 16 16:53 vboxquest-Module.symvers
                   root
[sdaniil@sdaniil tmp]$ ls -f
X11-unix
                                                    I
.ICE-unix
.XIM-unix
.font-unix
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-oomd.service-LXmqju
systemd-private-414f1c2cf627444aade704e67034e6e9-systemd-resolved.service-EmG2d
systemd-private-414f1c2cf627444aade704e67034e6e9-dbus-broker.service-hcqUaN
```

Рис. 3.3: Вывод на экран содержимого каталога /tmp

3)Определим, есть ли в каталоге /var/spool подкаталог с именем cron? (рис. 3.4).

```
[sdaniil@sdaniil tmp]$ ls /var/spool
abrt abrt-upload anacron at cron cups lpd mail plymouth
[sdaniil@sdaniil tmp]$
```

Рис. 3.4: /var/spool

4) Перейдем в свой домашний каталог и выведем на экран его содержимое. (рис. 3.5)

```
[sdaniil@sdaniil tmp]$ cd ~
[sdaniil@sdaniil ~]$ ls -l
итого 20
drwxr-xr-x. 1 sdaniil sdaniil
                                          34 Map 16 19:04 Downloads
drwxr-xr-x. 1 sdaniil sdaniil 166 map 5 23:02 git-extended
drwxr-xr-x. 1 sdaniil sdaniil 96 map 8 15:44 lab.pres
drwxr-xr-x. 1 sdaniil sdaniil 60 map 8 16:07 lab.reprot
-rw-r--r-. 1 sdaniil sdaniil 18657 map 16 18:03 LICENSE
drwxr-xr-x. 1 sdaniil sdaniil 14 map 2 03:19 media
drwxr-xr-x. 1 sdaniil sdaniil 10 map 2 03:19 sf_work
drwxr-xr-x. 1 sdaniil sdaniil 10 map 2 04:52 work
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 <mark>Видео</mark>
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 <mark>Документы</mark>
drwxr-xr-x. 1 sdaniil sdaniil 51018 мар 2 20:08 Загрузки
drwxr-xr-x. 1 sdaniil sdaniil 936 мар 16 17:16 Изображения
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 Музыка
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 Общедоступные
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 'Рабочий стол'
drwxr-xr-x. 1 sdaniil sdaniil 0 мар 2 00:08 Шаблоны
[sdaniil@sdaniil ~]$
```

Рис. 3.5: Вывод домашнего каталога

5) В домашнем каталоге создадим новый каталог с именем newdir. В каталоге ~/newdir создадим новый каталог с именем morefun. (рис. 3.6).

```
[sdaniil@sdaniil ~]$ mkdir newdir
[sdaniil@sdaniil ~]$ mkdir mewdir/morefun
mkdir: невозможно создать каталог «mewdir/morefun»: Нет такого файла или катало
га
[sdaniil@sdaniil ~]$ mkdir newdir/morefun
[sdaniil@sdaniil ~]$ [
```

Рис. 3.6: Новый каталог newdir и подкаталог

6) В домашнем каталоге создадим одной командой три новых каталога с именами letters, memos, misk. Затем удалим эти каталоги одной командой. (рис. 3.7).

```
[sdaniil@sdaniil ~]$ mkdir letters memos misk
[sdaniil@sdaniil ~]$ rmdir letters memos misk
```

Рис. 3.7: Создание и удаление новых каталогов

7) Попробуем удалить ранее созданный каталог ~/newdir командой rm. Удалим каталог ~/newdir/morefun из домашнего каталога. (рис. 3.8).

```
[sdaniil@sdaniil ~]$ rm newdir
rm: невозможно удалить 'newdir': Это каталог
[sdaniil@sdaniil ~]$ rmdir newdir/morefun
[sdaniil@sdaniil ~]$
```

Рис. 3.8: Удаление каталога newdir

8) С помощью команды man определим, какую опцию команды ls нужно использо- вать для просмотра содержимое не только указанного каталога, но и подкаталогов, входящих в него. (рис. 3.9 3.10 3.11).

```
-q, --hide-control-chars
             print ? instead of nongraphic characters
      --show-control-chars
             show nongraphic characters as-is (the default, unless program
             is 'ls' and output is a terminal)
      -Q, --quote-name
             enclose entry names in double quotes
      --quoting-style=WORD
             use quoting style WORD for entry names: literal, locale, shell,
             shell-always, shell-escape, shell-escape-always, c, escape
             (overrides QUOTING_STYLE environment variable)
      -r, --reverse
             reverse order while sorting
      -R, --recursive
             list subdirectories recursively
      -s, --size
             print the allocated size of each file, in blocks
      -S
             sort by file size, largest first
      --sort=WORD
             sort by WORD instead of name: none (-U), size (-S), time (-t),
             version (-v), extension (-X), width
      --time=WORD
             select which timestamp used to display or sort; access time
             (-u): atime, access, use; metadata change time (-c): ctime,
             status; modified time (default): mtime, modification; birth
             time: birth, creation;
             with -1, WORD determines which time to show; with --sort=time,
             sort by WORD (newest first)
      --time-style=TIME STYLE
             time/date format with -1; see TIME_STYLE below
Manual page ls(1) line 127 (press h for help or q to quit)
```

Рис. 3.9: Работа с командой тап

```
print the allocated size of each file, in blocks
             sort by file size, largest first
      -S
      --sort=WORD
             sort by WORD instead of name: none (-U), size (-S), time (-t),
             version (-v), extension (-X), width
      --time=WORD
             select which timestamp used to display or sort; access time
             (-u): atime, access, use; metadata change time (-c): ctime,
             status; modified time (default): mtime, modification; birth
             time: birth, creation;
             with -1, WORD determines which time to show; with --sort=time,
             sort by WORD (newest first)
      --time-style=TIME STYLE
             time/date format with -1; see TIME_STYLE below
            sort by time, newest first; see --time
      -t
      -T, --tabsize=COLS
             assume tab stops at each COLS instead of 8
             with -lt: sort by, and show, access time; with -l: show access
      -u
             time and sort by name; otherwise: sort by access time, newest
             first
      -U
            do not sort; list entries in directory order
             natural sort of (version) numbers within text
      -v
      -w, --width=COLS
             set output width to COLS. Ø means no limit
             list entries by lines instead of by columns
      - X
             sort alphabetically by entry extension
      - X
      -Z, --context
             print any security context of each file
Manual page 1s(1) line 150/249 75% (press h for help or q to quit)
```

Рис. 3.10: Работа с командой тап

```
fault), slash (-p), file-type (--file-type), classify (-F)
      -i, --inode
             print the index number of each file
      -I, --ignore=PATTERN
             do not list implied entries matching shell PATTERN
      -k, --kibibytes
             default to 1024-byte blocks for file system usage; used only
             with -s and per directory totals
            use a long listing format
      -1
      -L, --dereference
             when showing file information for a symbolic link, show infor-
             mation for the file the link references rather than for the
             link itself
             fill width with a comma separated list of entries
      - m
      -n, --numeric-uid-gid
             like -1, but list numeric user and group IDs
      -N, --literal
             print entry names without quoting
             like -1, but do not list group information
      -p, --indicator-style=slash
             append / indicator to directories
      -q, --hide-control-chars
             print ? instead of nongraphic characters
      --show-control-chars
             show nongraphic characters as-is (the default, unless program
             is 'ls' and output is a terminal)
      -Q, --quote-name
             enclose entry names in double quotes
      --quoting-style=WORD
Manual page ls(1) line 96/249 53% (press h for help or q to quit)
```

Рис. 3.11: Работа с командой тап

9) С помощью команды man определии набор опций команды ls, позволяю-

щий отсорти- ровать по времени последнего изменения выводимый список содержимого каталога с развёрнутым описанием файлов (рис. 3.12).

```
[sdaniil@sdaniil ~]$ ls -tl
итого 20
drwxr-xr-x. 1 sdaniil sdaniil
                               0 мар 16 19:12 newdir
drwxr-xr-x. 1 sdaniil sdaniil
                               34 map 16 19:04 Downloads
-rw-r--r-. 1 sdaniil sdaniil 18657 map 16 18:03 LICENSE
drwxr-xr-x. 1 sdaniil sdaniil 936 мар 16 17:16 Изображения
                              60 мар 8 16:07 lab.reprot
drwxr-xr-x. 1 sdaniil sdaniil
drwxr-xr-x. 1 sdaniil sdaniil
                               96 Map 8 15:44 lab.pres
drwxr-xr-x. 1 sdaniil sdaniil
                              166 map 5 23:02 git-extended
drwxr-xr-x. 1 sdaniil sdaniil 51018 мар 2 20:08 Загрузки
drwxr-xr-x. 1 sdaniil sdaniil
                               10 map 2 04:52 work
drwxr-xr-x. 1 sdaniil sdaniil
                               14 map 2 03:19 media
                              10 мар 2 03:19 sf_work
drwxr-xr-x. 1 sdaniil sdaniil
drwxr-xr-x. 1 sdaniil sdaniil
                               0 мар 2 00:08 Видео
drwxr-xr-x. 1 sdaniil sdaniil
                               0 мар 2 00:08 Документы
drwxr-xr-x. 1 sdaniil sdaniil
                              0 мар 2 00:08 Музыка
drwxr-xr-x. 1 sdaniil sdaniil
                               0 мар 2 00:08 Общедоступные
drwxr-xr-x. 1 sdaniil sdaniil
                                0 мар 2 00:08 'Рабочий стол'
drwxr-xr-x. 1 sdaniil sdaniil
                              0 мар 2 00:08
                                               Шаблоны
[sdaniil@sdaniil ~]$
```

Рис. 3.12: Сортировка по времени последнего изменения

10) Используем команду man для просмотра описания следующих команд: cd, pwd, mkdir, rmdir, rm. (рис. 3.13). (рис. 3.14). (рис. 3.15). (рис. 3.16). (рис. 3.17).

#### NAME

:, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit, export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readarray, readonly, return, set, shift, shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

#### BASH BUILTIN COMMANDS

Unless otherwise noted, each builtin command documented in this section as accepting options preceded by - accepts -- to signify the end of the options. The :, true, false, and test/[ builtins do not accept options and do not treat -- specially. The exit, logout, return, break, continue, let, and shift builtins accept and process arguments beginning with - without requiring --. Other builtins that accept arguments but are not specified as accepting options interpret arguments beginning with - as invalid options and require -- to prevent this interpretation.

#### : [arguments]

No effect; the command does nothing beyond expanding <u>arguments</u> and performing any specified redirections. The return status is zero.

#### . <u>filename</u> [arguments]

#### source filename [arguments]

Read and execute commands from <a href="filename">filename</a> in the current shell environment and return the exit status of the last command executed from <a href="filename">filename</a>. If <a href="filename">filename</a> does not contain a slash, filenames in <a href="PATH">PATH</a> are used to find the directory containing <a href="filename">filename</a>, but <a href="filename">filename</a> does not need to be executable. The file searched for in <a href="PATH">PATH</a> need not be executable. When <a href="bash">bash</a> is not in <a href="posix">posix</a> mode, it searches the current directory if no file is found in <a href="PATH">PATH</a>. If the <a href="sourcepath">sourcepath</a> option to the <a href="shopt">shopt</a> builtin command is turned off, the <a href="PATH">PATH</a> is not searched. If any <a href="arguments">arguments</a> are supplied, they become the positional parameters when <a href="filename">filename</a> is executed. Otherwise the positional parameters are unchanged. If the <a href="T">T</a> option is enabled, . inherits any trap on <a href="DEBUG">DEBUG</a>; if it is not, any <a href="DEBUG">DEBUG</a> trap while it executes. If <a href="T">T</a> is not set, and the sourced file

Manual page cd(1) line 1 (press h for help or q to quit)

Рис. 3.13: cd

```
PWD(1)
                                    User Commands
                                                                                PWD(1)
NAME
        pwd - print name of current/working directory
SYNOPSIS
        pwd [OPTION]...
DESCRIPTION
        Print the full filename of the current working directory.
        -L, --logical
                use PWD from environment, even if it contains symlinks
        -P, --physical
                avoid all symlinks
        --help display this help and exit
        --version
                output version information and exit
        If no option is specified, -P is assumed.
       NOTE: your shell may have its own version of pwd, which usually super-
        sedes the version described here. Please refer to your shell's docu-
        mentation for details about the options it supports.
AUTHOR
        Written by Jim Meyering.
REPORTING BUGS
        GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
        Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
COPYRIGHT
        Copyright © 2023 Free Software Foundation, Inc. License GPLv3+: GNU
        GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
        This is free software: you are free to change and redistribute it.
        There is NO WARRANTY, to the extent permitted by law.
SEE ALSO
       getcwd(3)
Manual page pwd(1) line 1 (press h for help or q to quit)
```

Рис. 3.14: pwd

```
MKDIR(1)
                                  User Commands
                                                                        MKDIR(1)
NAME
       mkdir - make directories
SYNOPSIS
       mkdir [OPTION] ... DIRECTORY ...
DESCRIPTION
       Create the DIRECTORY(ies), if they do not already exist.
       Mandatory arguments to long options are mandatory for short options
       too.
       -m, --mode=MODE
               set file mode (as in chmod), not a=rwx - umask
        -p, --parents
               no error if existing, make parent directories as needed, with
               their file modes unaffected by any -m option.
       -v, --verbose
               print a message for each created directory
               set SELinux security context of each created directory to the
               default type
        --context[=CTX]
               like -Z, or if CTX is specified then set the SELinux or SMACK
               security context to CTX
        --help display this help and exit
        --version
               output version information and exit
AUTHOR
       Written by David MacKenzie.
REPORTING BUGS
       GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
       Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/>
Manual page mkdir(1) line 1 (press h for help or q to quit)
```

Рис. 3.15: mkdir

```
User Commands
RMDIR(1)
                                                                                  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 to remove a non-empty directory
        -p, --parents
                remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b' is
                similar to 'rmdir 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
        Written by David MacKenzie.
REPORTING BUGS
        GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
        Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/>
COPYRIGHT
        Copyright © 2023 Free Software Foundation, Inc. License GPLv3+: GNU
        GPL version 3 or later <a href="https://gnu.org/licenses/gpl.html">https://gnu.org/licenses/gpl.html</a>.
        This is free software: you are free to change and redistribute it.
        There is NO WARRANTY, to the extent permitted by law.
SEE ALSO
        rmdir(2)
        Full documentation <a href="https://www.gnu.org/software/coreutils/rmdir">https://www.gnu.org/software/coreutils/rmdir</a>
Manual page rmdir(1) line 1 (press h for help or q to quit)
```

Рис. 3.16: rmdir

```
RM(1)
                               User Commands
                                                                       RM(1)
NAME
       rm - remove files or directories
SYNOPSIS
       rm [OPTION]... [FILE]...
DESCRIPTION
       This manual page documents the GNU version of rm. rm removes each
       specified file. By default, it does not remove directories.
       If the -I or -- interactive=once option is given, and there are more
       than three files or the -r, -R, or --recursive are given, then rm
       prompts the user for whether to proceed with the entire operation. If
       the response is not affirmative, the entire command is aborted.
       Otherwise, if a file is unwritable, standard input is a terminal, and
       the _f or _-force option is not given, or the _i or _-interactive=al-
       ways option is given, rm prompts the user for whether to remove the
       file. If the response is not affirmative, the file is skipped.
OPTIONS
       Remove (unlink) the FILE(s).
       -f, --force
              ignore nonexistent files and arguments, never prompt
       -1
             prompt before every removal
       -I
             prompt once before removing more than three files, or when re-
             moving recursively; less intrusive than -i, while still giving
              protection against most mistakes
       --interactive[=WHEN]
              prompt according to WHEN: never, once (-I), or always (-i);
             without WHEN, prompt always
       --one-file-system
              when removing a hierarchy recursively, skip any directory that
              is on a file system different from that of the corresponding
              command line argument
Manual page rm(1) line 1 (press h for help or g to guit)
```

Рис. 3.17: rm

11) Используя информацию, полученную при помощи команды history, выполним мо- дификацию и исполнение нескольких команд из буфера команд. (рис. 3.18 3.19).

```
foot
ate
      chezmoi init git@github.com:Daniil2234/dotfiles.git
  50 ls bin
  51 sudo cp ./bin/chezmoi usr/local/bin
  52 sudo cp ./bin/chezmoi /usr/local/bin
  53 chezmoi init git@github.com:Daniil2234/dotfiles.git
  54 chezmoi diff
  55 chezmoi apply -v
  56 chezmoi update
  57 chezmoi git pull -- --autostash --rebase && chezmoi diff
  58 chezmoi apply
  59 nano ~/.config/chezmoi/chezmoi.toml
  60 git add .
  61 git - commit
  62 git --commit
  63 git add .
  64 git commit
  65 git push
  66 cd
  67 pwd
  68 cd /tmp
     1s
  69
  70 ls -a
  71 ls -1
  72 1s -f
  73 ls /var/spool
  74 cd ~
  75 1s -1
  76 mkdir newdir
  77 mkdir mewdir/morefun
  78 mkdir newdir/morefun
  79 mkdir letters memos misk
  80 rmdir letters memos misk
  81 rm newdir
  82 rmdir newdir/morefun
  83 man 1s
  84 1s -t1
  85 man cd
  86 man pwd
  87 man mkdir
  88 man rmdir
  89 man rm
  90 history
[sdaniil@sdaniil →}$
```

Рис. 3.18: Команда history

```
[sdaniil@sdaniil ~]$ !85:s/morefun/
bash: :s/morefun/: substitution failed
[sdaniil@sdaniil ~]$ !71:1/a
bash: 1: unrecognized history modifier
[sdaniil@sdaniil ~]$ !71:s/l/a
as -1
as: двусмысленный параметр «-l»; возможные варианты: '-listing-lhs-width' '-lis
ting-lhs-width2' '-listing-rhs-width' '-listing-cont-lines'
[sdaniil@sdaniil ~]$ !71:s/-1/-a
1s -a
                newdir
                .npm
                .password-store
.bash_history sf_work
.bash_logout
 .bash_profile .vboxclient-clipboard-tty2-control.pid
             .vboxclient-draganddrop-tty2-control.pid
 .bashrc
.bashrc.d .vboxclient-hostversion-tty2-control.pid
               .vboxclient-seamless-tty2-control.pid
 config
                .vimrc
Downloads
               .wget-hsts
.gitconfig
git-extended
                .XCompose
                Видео
 gnupg
 .gtkrc-2.0
                Документы
 lab.pres
                Загрузки
              Изображения
 lab.reprot
LICENSE
               Музыка
               Общедоступные
               'Рабочий стол'
media
                Шаблоны
[sdaniil@sdaniil ~]$
```

Рис. 3.19: Выполнение модификаций

## 4 Выводы

Я приобрел практические навыки взаимодействия пользователя с системой по- средством командной строки.