

# **Отчёт по лабораторной работе № 8**

**Простейший вариант**

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# 1 Цель работы

Ознакомление с инструментами поиска файлов и фильтрации текстовых данных. Приобретение практических навыков: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем

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## 2 Выполнение лабораторной работы

1

Записываю в файл file.txt названия файлов, содержащихся в каталоге /etc.(рис. 2.1)

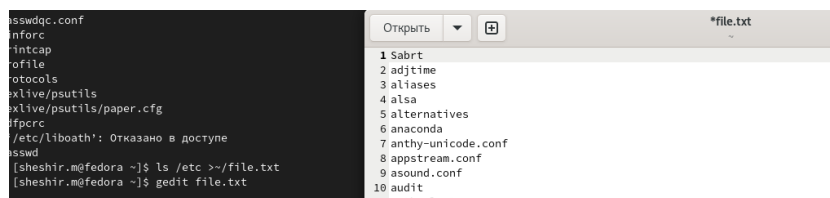


Рис. 2.1: ls

3

Дописываю в этот же файл названия файлов, содержащихся в домашнем каталоге. (рис. 2.2)

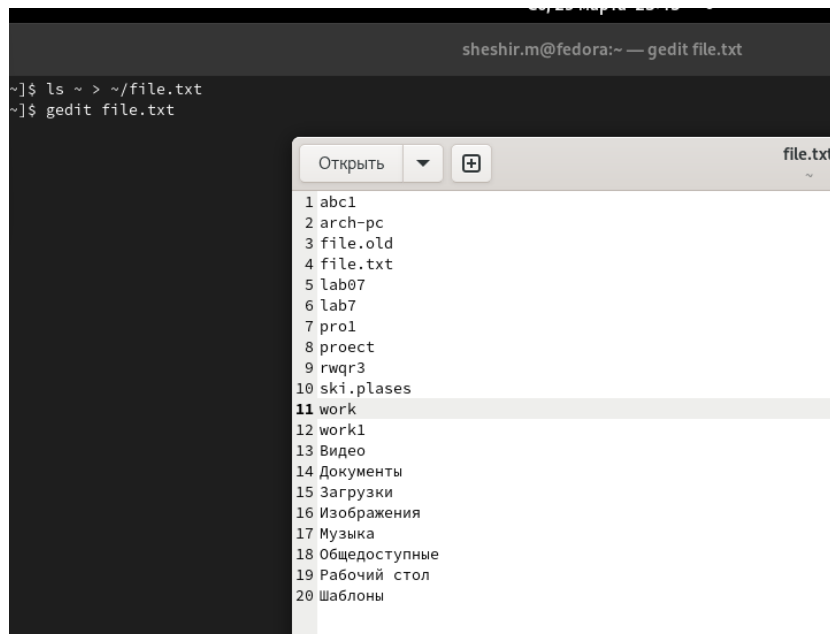


Рис. 2.2: 2

4

Вывожу имена всех файлов из file.txt, имеющих расширение .conf записываю их в новый текстовый файл conf.txt.(рис. 2.3)

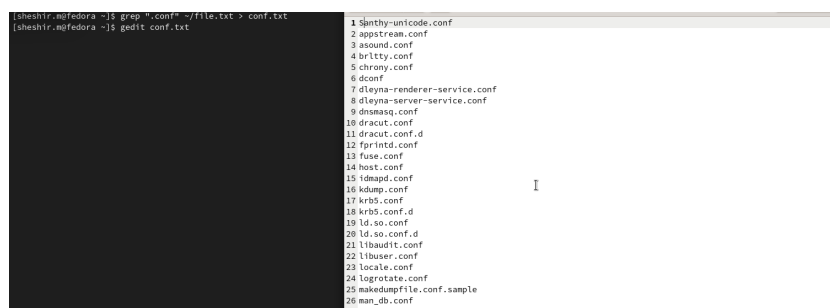


Рис. 2.3: вывод последних 10 строк

Да, есть!

5

Определяю, какие файлы в вашем домашнем каталоге имеют имена, начинавшиеся с символа c (рис. 2.4)

```

find -name "*" -print(base) [sheshir.m@fedora ~]$ find -name "*" -print
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/components.ini
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/cookies.sqlite
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/cert9.db
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/storage/permanent/chrome
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/content-prefs.sqlite
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/containers.json
/home/sheshir.m/.mozilla/firefox/ac9w1mp.default-release/credentialstate.sqlite
/home/sheshir.m/.cache/evolution/calendar
/home/sheshir.m/.cache/gnome-software/appstream/components.xmlb
/home/sheshir.m/.cache/gnome-software/flatpak-system-default/components.xmlb
/home/sheshir.m/.cache/gnome-software/flatpak-user-user/components.xmlb
/home/sheshir.m/.cache/gnome-software/icons/ca92d15528991d4236fd3963ed9add391d42d6-ibus-typing-booster.png
/home/sheshir.m/.cache/gnome-software/icons/c69939b9ddfc2c55457b19e97234aa188ee95-app.drey.Warp.png
/home/sheshir.m/.cache/gnome-software/icons/c75c97a5a4ab3a07a9e8e6e6397c6d8ff39ad-com.github.huluti.Curtail.png
/home/sheshir.m/.cache/gnome-software/icons/ce88a47043c91816f4d85eab1db3b59771d33d-re.sonny.Junction.png
/home/sheshir.m/.cache/gnome-software/icons/c7a2b610f8b472fe11f3332766c37f50dee29b-org.gnome.World.PikaBackup.png
/home/sheshir.m/.cache/gnome-software/icons/ce88a47043c91816f4d85eab1db3b59771d33d-re.sonny.Junction.png
/home/sheshir.m/.cache/gnome-software/icons/ce88a47043c91816f4d85eab1db3b59771d33d-re.sonny.Junction.png
/home/sheshir.m/.cache/gnome-software/icons/c58c3d2775989e692539e6ff571086269bc79c-app.reddotbook.Rednotebook.png
/home/sheshir.m/.cache/gnome-software/icons/ce85638216af95ee782a7e65181ab03638df7fb-com.adilhaney.saber.png
/home/sheshir.m/.cache/gnome-software/icons/c12022e42dbd0b8e3a253ae7d0266f2c4f807-com.github.PintaProject.Pinta.png
/home/sheshir.m/.cache/gnome-software/icons/ca6dd8c5975d78f45c6e7fb42f1c7757f1ad3115b-com.github.dimkr.gplaces.png
/home/sheshir.m/.cache/gnome-software/icons/c28366bf8e419ac4bc6b179cb4b532922e83e-com.decsaba.gpu_screen_recorder.png
/home/sheshir.m/.cache/gnome-software/icons/ceda97947893a389d311e47f40d4ba130c4fb-com.jeffeer.Alpaca.png
/home/sheshir.m/.cache/gnome-software/icons/c036140913987c2f4589e644999ab4097404554-com.jetbrains.GoLand.png
/home/sheshir.m/.cache/gnome-software/icons/ce136ffff560b1b94e73f2dab1c03cb2a55df616-com.jetbrains.PhpStorm.png
/home/sheshir.m/.cache/gnome-software/icons/ce136ffff560b1b94e73f2dab1c03cb2a55df616-com.jetbrains.PhpStorm.png

```

Рис. 2.4: Создание нового каталога

6

Вывожу на экран имена файлов из каталога /etc, начинающиеся с символа h.(рис. 2.5)

```

sheshir.m@fedora:~$ find /etc "h*" -print
/etc
/etc/favicon.png
/etc/fedora-release
/etc/grub2-efi.cfg
/etc/grub2.cfg
/etc/issue
/etc/issue.net
/etc/opensc-x86_64.conf
/etc/os-release
/etc/redhat-release
/etc/resolv.conf
/etc/system-release
/etc/system-release-cpe
/etc/.java
/etc/.java/.systemPrefs
/etc/ImageMagick-7
/etc/ImageMagick-7/colors.xml
/etc/ImageMagick-7/delegates.xml
/etc/ImageMagick-7/log.xml
/etc/ImageMagick-7/mime.xml
/etc/ImageMagick-7/policy.xml
/etc/ImageMagick-7/quantization-table.xml
/etc/ImageMagick-7/thresholds.xml
/etc/ImageMagick-7/type-apple.xml
/etc/ImageMagick-7/type-dejavu.xml
/etc/ImageMagick-7/type-ghostscript.xml
/etc/ImageMagick-7/type-urw-base35.xml
/etc/ImageMagick-7/type-windows.xml
/etc/ImageMagick-7/type.xml
/etc/NetworkManager
/etc/NetworkManager/conf.d
/etc/NetworkManager/dispatcher.d
/etc/NetworkManager/dispatcher.d/no-wait.d
/etc/NetworkManager/dispatcher.d/pre-down.d
/etc/NetworkManager/dispatcher.d/pre-up.d
/etc/NetworkManager/dnsmasq-shared.d
/etc/NetworkManager/dnsmasq.d
/etc/NetworkManager/system-connections
/etc/NetworkManager/NetworkManager.conf
/etc/PackageKit
/etc/PackageKit/CommandNotFound.conf
/etc/PackageKit/PackageKit.conf
/etc/PackageKit/Vendor.conf
/etc/UPower
/etc/UPower/UPower.conf
/etc/X11

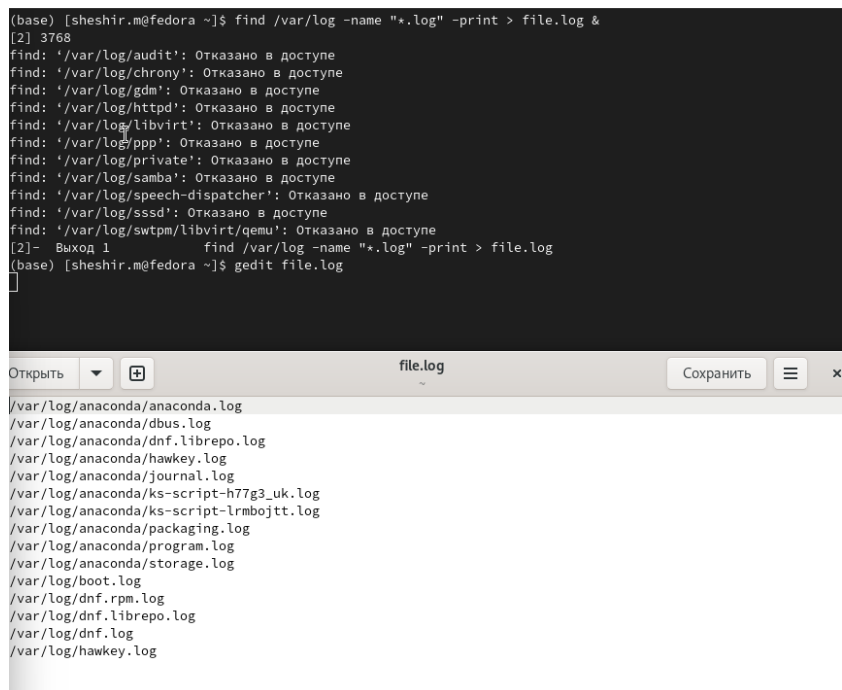
```

Рис. 2.5: переименование.

7

Запустил в фоновом режиме процесс, который будет записывать в файл ~/logfile файлы, имена которых начинаются с log.(рис. 2.6)

```
(base) [sheshir.m@fedora ~]$ find /var/log -name "*.log" -print > file.log &
[2] 3768
find: '/var/log/audit': Отказано в доступе
find: '/var/log/chrony': Отказано в доступе
find: '/var/log/gdm': Отказано в доступе
find: '/var/log/httpd': Отказано в доступе
find: '/var/log/libvirt': Отказано в доступе
find: '/var/log/ppp': Отказано в доступе
find: '/var/log/private': Отказано в доступе
find: '/var/log/samba': Отказано в доступе
find: '/var/log/speech-dispatcher': Отказано в доступе
find: '/var/log/sss': Отказано в доступе
find: '/var/log/swtpm/libvirt/qemu': Отказано в доступе
[2]- Выход 1      find /var/log -name "*.log" -print > file.log
(base) [sheshir.m@fedora ~]$ gedit file.log
```



file.log

```
/var/log/anaconda/anaconda.log
/var/log/anaconda/dbus.log
/var/log/anaconda/dnf.librepo.log
/var/log/anaconda/hawkey.log
/var/log/anaconda/journal.log
/var/log/anaconda/ks-script-h77g3_uk.log
/var/log/anaconda/ks-script-lrmbojtt.log
/var/log/anaconda/packaging.log
/var/log/anaconda/program.log
/var/log/anaconda/storage.log
/var/log/boot.log
/var/log/dnf.rpm.log
/var/log/dnf.librepo.log
/var/log/dnf.log
/var/log/hawkey.log
```

Рис. 2.6: что-то...

## 8

Удаляю файл ~/logfile.(рис. 2.7)

```
(base) [sheshir.m@fedora ~]$ rm file.log
(base) [sheshir.m@fedora ~]$
```

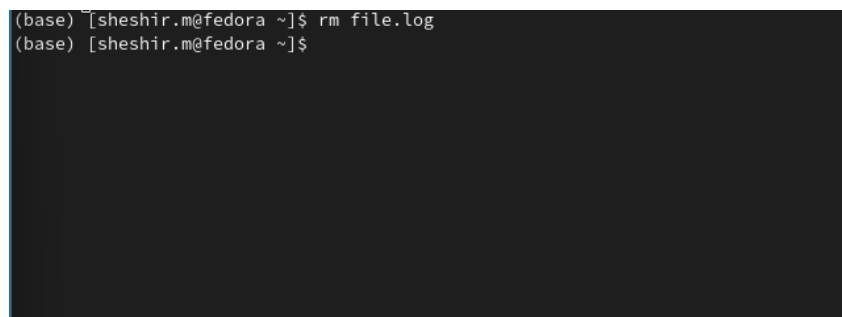


Рис. 2.7: создание

## 9

Запускаю из консоли в фоновом режиме редактор gedit.(рис. 2.8)



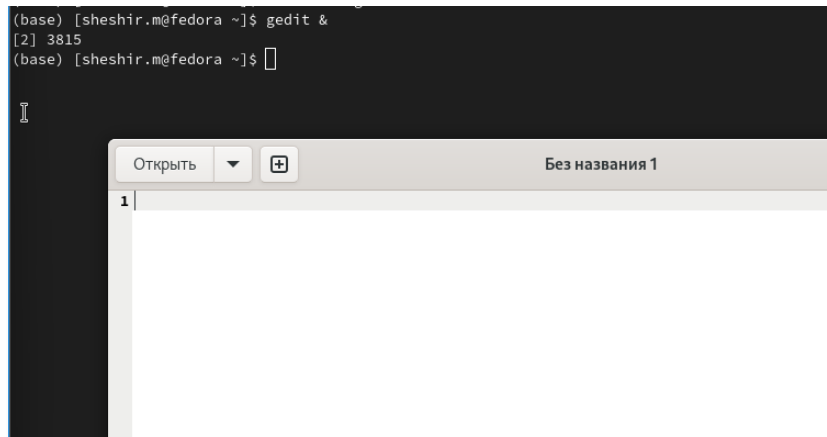


Рис. 2.8: телепортация

## 10

Определяю идентификатор процесса gedit, используя команду ps, конвейер и фильтр grep.(рис. 2.9)

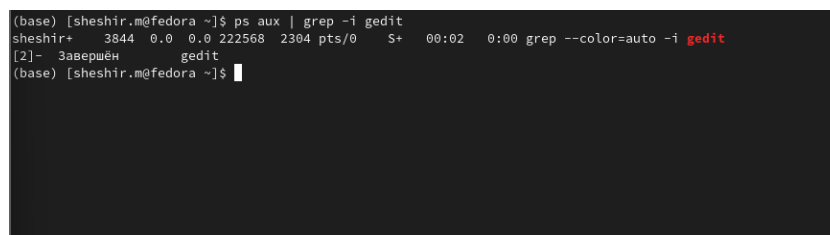


Рис. 2.9: Отообразим опции ls

## 11

Прочел справку (man) команды kill(рис. 2.10)

```
sheshir.m@fedora:~ -- man kill
KILL(1)                                User Commands                                KILL(1)

NAME
    kill - terminate a process

SYNOPSIS
    kill [-signal|-s signal|-p] [-q value] [-a] [--timeout milliseconds signal] [--] pid/name...

    kill -l [number] | -L

DESCRIPTION
    The command kill sends the specified signal to the specified processes or process groups.

    If no signal is specified, the TERM signal is sent. The default action for this signal is to terminate the process. This signal should be used in preference to the KILL signal (number 9), since a process may install a handler for the TERM signal in order to perform clean-up steps before terminating in an orderly fashion. If a process does not terminate after a TERM signal has been sent, then the KILL signal may be used; be aware that the latter signal cannot be caught, and so does not give the target process the opportunity to perform any clean-up before terminating.

    Most modern shells have a builtin kill command, with a usage rather similar to that of the command described here. The --all, --pid, and --queue options, and the possibility to specify processes by command name, are local extensions.

    If signal is 0, then no actual signal is sent, but error checking is still performed.

ARGUMENTS
    The list of processes to be signaled can be a mixture of names and PIDs.

    pid
        Each pid can be expressed in one of the following ways:

        n
            where n is larger than 0. The process with PID n is signaled.

        0
            All processes in the current process group are signaled.

        -1
            All processes with a PID larger than 1 are signaled.

        -n
            where n is larger than 1. All processes in process group n are signaled. When an argument of the form '-n' is given, and it is meant to denote a process group, either a signal must be specified first, or the argument must be preceded by a '--' option, otherwise it will be taken as the signal to send.

Manual name kill(1) line 1 (press h for help or q to quit)
```

Рис. 2.10: опции

## 12

Завершаю работу gedit с помощью команды kill. (рис. 2.11)

```
(base) [sheshir.m@fedora ~]$ ps aux | grep -i gedit
sheshir+ 3895  2.6  1.8 929612 71852 pts/0    Sl   00:05   0:00 gedit
sheshir+ 3929  0.0  0.0 222568 2432 pts/0    S+   00:05   0:00 grep --color=auto -i gedit
(base) [sheshir.m@fedora ~]$ kill 3895
(base) [sheshir.m@fedora ~]$
```

Рис. 2.11: о

## 13

Выполняю команды df и du, предварительно получив более подробную информацию об этих командах, с помощью команды man.(рис. 2.12)

```
sheshir.m@fedora:~ — man df
DF(1) User Commands DF(1)

NAME
    df - report file system space usage

SYNOPSIS
    df [OPTION]... [FILE]...

DESCRIPTION
    This manual page documents the GNU version of df. df displays the amount of space available on the file system containing each file name argument. If no file name is given, the space available on all currently mounted file systems is shown. Space is shown in 1K blocks by default, unless the environment variable POSIXLY_CORRECT is set, in which case 512-byte blocks are used.

    If an argument is the absolute file name of a device node containing a mounted file system, df shows the space available on that file system rather than on the file system containing the device node. This version of df cannot show the space available on unmounted file systems, because on most kinds of systems doing so requires very nonportable intimate knowledge of file system structures.

OPTIONS
    Show information about the file system on which each FILE resides, or all file systems by default.

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

    -a, --all
        include pseudo, duplicate, inaccessible file systems

    -B, --block-size=SIZE
        scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE format below

    --direct
        show statistics for a file instead of mount point

    -h, --human-readable
        print sizes in powers of 1024 (e.g., 1023M)

    -H, --si
        print sizes in powers of 1000 (e.g., 1.1G)

    -i, --inodes
        list inode information instead of block usage

    -k
        like --block-size=1K
```

Рис. 2.12: Опции

```
sheshir.m@fedora:~ — man du
DU(1)                                User Commands                                DU(1)

NAME
du - estimate file space usage

SYNOPSIS
du [OPTION]... [FILE]...
du [OPTION]... --files0-from=F

DESCRIPTION
Summarize device usage of the set of FILES, recursively for directories.

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

  -0, --null
      end each output line with NUL, not newline

  -a, --all
      write counts for all files, not just directories

  --apparent-size
      print apparent sizes rather than device usage; although the apparent size is usually smaller, it may
      be larger due to holes in ('sparse') files, internal fragmentation, indirect blocks, and the like

  -B, --block-size=SIZE
      scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see
      SIZE format below

  -b, --bytes
      equivalent to '--apparent-size --block-size=1'

  -c, --total
      produce a grand total

  -D, --dereference-args
      dereference only symlinks that are listed on the command line

  -d, --max-depth=N
      print the total for a directory (or file, with --all) only if it is N or fewer levels below the com-
      mand line argument; --max-depth=0 is the same as --summarize

  --files0-from=F
      summarize device usage of the NUL-terminated file names specified in file F; if F is -, then read
      names from standard input
```

Рис. 2.13: Опции

## 14

Воспользовавшись справкой команды `find`, вывел имена всех директорий, име-  
ющихся в вашем домашнем каталоге (рис. 2.14)

```
sheshir.m@fedora:~  
(base) [sheshir.m@fedora ~]$ find -type d  
/home/sheshir.m  
/home/sheshir.m/.mozilla  
/home/sheshir.m/.mozilla/extensions  
/home/sheshir.m/.mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}  
/home/sheshir.m/.mozilla/plugins  
/home/sheshir.m/.mozilla/firefox  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/security_state  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.files  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/3870112724rsegmnoittet-es.files/journals  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/3561288849sdhlie.files  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/1451318868ntourolalnodry--epc  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/1657114595Amcateirvtisty.files  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/2823318777ntourolalnodry--nao  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/permanent/chrome/idb/2918063365piupsah.files  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/temporary  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/default  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/default/https+++github.com  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/default/https+++github.com/ls  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/default/https+++www.google.com  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/default/https+++www.google.com/ls  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/storage/to-be-removed  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/bookmarkbackups  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/glean  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/glean/events  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/glean/db  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/glean/pending_pings  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/glean/tmp  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/archived  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/datareporting/archived/2025-03  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/sessionstore-backups  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/settings  
/home/sheshir.m/.mozilla/firefox/ac9wimwp.default-release/saved-telemetry-pings
```

Рис. 2.14: Опции

## 3 Вывод

В ходе работы я ознакомился с инструментами поиска файлов и фильтрации текстовых данных.