

1. Создаю каталоги по заданию через mkdir (поторопился и создал не в домашней директории, а на директорию ниже, в дочерней директории Desktop, прошу прощения, заметил на этапе оформления скринов. Нужно было прописать cd .. и подняться выше в родительскую папку, создавать оттуда аналогичным образом)

```
dreamchik@ubuntu:~/Desktop$ mkdir Sazhnev
dreamchik@ubuntu:~/Desktop$ cd Sazhnev
dreamchik@ubuntu:~/Desktop/Sazhnev$ mkdir 1
dreamchik@ubuntu:~/Desktop/Sazhnev$ mkdir 4
dreamchik@ubuntu:~/Desktop/Sazhnev$ cd 1
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ mkdir 2
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ mkdir 3
```

2. Копирую в каждый из каталогов 1-4 файл group из папки etc

```
dreamchik@ubuntu:/$ cp /etc/group ~/Desktop/Sazhnev/1
dreamchik@ubuntu:/$ cp /etc/group ~/Desktop/Sazhnev/1/2
dreamchik@ubuntu:/$ cp /etc/group ~/Desktop/Sazhnev/1/3
dreamchik@ubuntu:/$ cp /etc/group ~/Desktop/Sazhnev/4
```

3. Вывожу файл, используя cat

```
dreamchik@ubuntu:~/Desktop$ cat Sazhnev/1/group      dreamchik@ubuntu:~/Desktop$ cat Sazhnev/1/2/group
root:x:0:                                         root:x:0:
daemon:x:1:                                       daemon:x:1:
bin:x:2:                                         bin:x:2:
sys:x:3:                                         sys:x:3:
adm:x:4:syslog,dreamchik                         adm:x:4:syslog,dreamchik
tty:x:5:syslog                                     tty:x:5:syslog
disk:x:6:                                         disk:x:6:
lp:x:7:                                           lp:x:7:
mail:x:8:                                         mail:x:8:
news:x:9:                                         news:x:9:
uucp:x:10:                                        uucp:x:10:
man:x:12:                                         man:x:12:
proxy:x:13:                                        proxy:x:13:
kmem:x:15:                                         kmem:x:15:
dialout:x:20:                                       dialout:x:20:
fax:x:21:                                         fax:x:21:
voice:x:22:                                        voice:x:22:
cdrom:x:24:dreamchik                            cdrom:x:24:dreamchik
floppy:x:25:                                       floppy:x:25:
tape:x:26:                                         tape:x:26:
sudo:x:27:dreamchik                            sudo:x:27:dreamchik
audio:x:29:pulse                                 audio:x:29:pulse
dip:x:30:dreamchik                             dip:x:30:dreamchik
www-data:x:33:                                    www-data:x:33:
backup:x:34:                                      backup:x:34:

dreamchik@ubuntu:~/Desktop$ cat Sazhnev/1/3/group      dreamchik@ubuntu:~/Desktop$ cat Sazhnev/4/group
root:x:0:                                         root:x:0:
daemon:x:1:                                       daemon:x:1:
bin:x:2:                                         bin:x:2:
sys:x:3:                                         sys:x:3:
adm:x:4:syslog,dreamchik                         adm:x:4:syslog,dreamchik
tty:x:5:syslog                                     tty:x:5:syslog
disk:x:6:                                         disk:x:6:
lp:x:7:                                           lp:x:7:
mail:x:8:                                         mail:x:8:
news:x:9:                                         news:x:9:
uucp:x:10:                                        uucp:x:10:
man:x:12:                                         man:x:12:
proxy:x:13:                                        proxy:x:13:
kmem:x:15:                                         kmem:x:15:
dialout:x:20:                                       dialout:x:20:
fax:x:21:                                         fax:x:21:
voice:x:22:                                        voice:x:22:
cdrom:x:24:dreamchik                            cdrom:x:24:dreamchik
floppy:x:25:                                       floppy:x:25:
tape:x:26:                                         tape:x:26:
sudo:x:27:dreamchik                            sudo:x:27:dreamchik
audio:x:29:pulse                                 audio:x:29:pulse
dip:x:30:dreamchik                             dip:x:30:dreamchik
www-data:x:33:                                    www-data:x:33:
backup:x:34:                                      backup:x:34:
```

4. Выполняю команду из задания. Отобразились каталоги, символьные устройства, символьные ссылки и блочные устройства.

```
dreamchik@ubuntu:~$ ls -l /dev
total 0
crw-r--r-- 1 root      root    10, 235 Nov 11 04:52 autofs
drwxr-xr-x 2 root      root        340 Nov 11 04:52 block
drwxr-xr-x 2 root      root     100 Nov 11 04:52 bsg
crw----- 1 root      root    10, 234 Nov 11 04:52 btrfs-control
drwxr-xr-x 3 root      root       60 Nov 11 04:52 bus
lrwxrwxrwx 1 root      root       3 Nov 11 04:52 cdrom -> sr0
lrwxrwxrwx 1 root      root       3 Nov 11 04:52 cdrw -> sr0
drwxr-xr-x 2 root      root    3740 Nov 11 04:52 char
crw--w---- 1 root      tty      5,   1 Nov 11 04:52 console
lrwxrwxrwx 1 root      root      11 Nov 11 04:52 core -> /proc/kcore
drwxr-xr-x 4 root      root     80 Nov 11 04:52 cpu
crw----- 1 root      root    10, 124 Nov 11 04:52 cpu_dma_latency
crw----- 1 root      root    10, 203 Nov 11 04:52 cuse
drwxr-xr-x 6 root      root    120 Nov 11 04:52 disk
drwxr-xr-x 2 root      root       60 Nov 11 04:52 dma_heap
crw-rw---+ 1 root      audio    14,   9 Nov 11 04:52 dmmidi
drwxr-xr-x 3 root      root    100 Nov 11 04:52 dri
lrwxrwxrwx 1 root      root       3 Nov 11 04:52 dvd -> sr0
crw----- 1 root      root    10, 126 Nov 11 04:52 ecryptfs
crw-rw--- 1 root      video    29,   0 Nov 11 04:52 fb0
lrwxrwxrwx 1 root      root     13 Nov 11 04:52 fd -> /proc/self/fd
brw-rw--- 1 root      disk      2,   0 Nov 11 04:52 fd0
crw-rw-rw- 1 root      root      1,   7 Nov 11 04:52 full
crw-rw-rw- 1 root      root    10, 229 Nov 11 04:52 fuse
```

5. Просматриваю ключи через команду --help

```
dreamchik@ubuntu:~$ ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILES (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all                  do not ignore entries starting with .
  -A, --almost-all           do not list implied . and ..
  --author                 with -l, print the author of each file
  -b, --escape               print C-style escapes for nongraphic characters
  --block-size=SIZE          with -l, scale sizes by SIZE when printing them;
                             e.g., '--block-size=M'; see SIZE format below
  -B, --ignore-backups      do not list implied entries ending with ~
  -c                         with -lt: sort by, and show, ctime (time of last
                             modification of file status information);
                             with -l: show ctime and sort by name;
                             otherwise: sort by ctime, newest first
  -C                         list entries by columns
  --color[=WHEN]             colorize the output; WHEN can be 'always' (default
                             if omitted), 'auto', or 'never'; more info below
  -d, --directory            list directories themselves, not their contents
  -D, --dired                generate output designed for Emacs' dired mode
  -f                         do not sort, enable -aU, disable -ls --color
  -F, --classify             append indicator (one of */=>@|) to entries
  --file-type                likewise, except do not append '*'
  --format=WORD               across -x, commas -m, horizontal -x, long -l,
                             -R, --recursive           list subdirectories recursively
  -m                         fill width with a comma separated list of entries
  1                          list one file per line. Avoid '\n' with -q or -b
  --color[=WHEN]             colorize the output; WHEN can be 'always' (default
```

6. Создание жёсткой ссылки

```
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ ln group hardlink
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ ls -i group
1442080 group
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ ls -i hardlink
1442080 hardlink
```

Создание символьной ссылки

```
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ ln -s group symblink
dreamchik@ubuntu:~/Desktop/Sazhnev/1$ cat group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,dreamchik
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
```