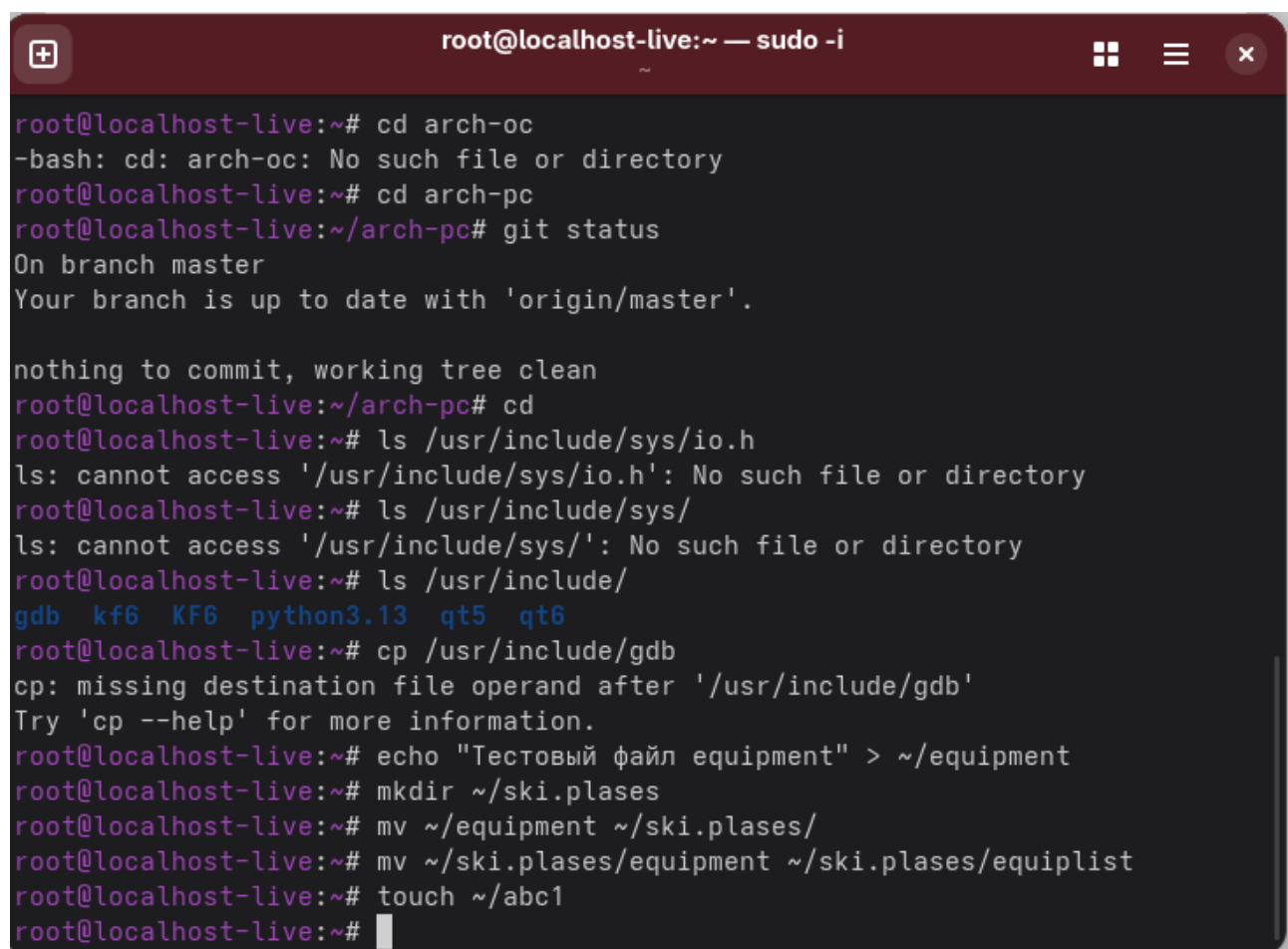Лабораторная работа № 5.

Анализ файловой системы Linux. Команды для работы с файлами и каталогами
5.1. Цель работы Ознакомление с файловой системой Linux, её структурой, именами
и содержанием каталогов. Приобретение практических навыков по применению
команд для работы с файлами и каталогами, по управлению процессами (и
работами), по проверке использования диска и обслуживанию файловой системы.

Выполняем копирование файлов

```
root@localhost-live:~# cd arch-oc
-bash: cd: arch-oc: No such file or directory
root@localhost-live:~# cd arch-pc
root@localhost-live:~/arch-pc# git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
root@localhost-live:~/arch-pc# cd
root@localhost-live:~# ls /usr/include/sys/io.h
ls: cannot access '/usr/include/sys/io.h': No such file or directory
root@localhost-live:~# ls /usr/include/sys/
ls: cannot access '/usr/include/sys/': No such file or directory
root@localhost-live:~# ls /usr/include/
gdb  kf6  KF6  python3.13  qt5  qt6
root@localhost-live:~# cp /usr/include/gdb
cp: missing destination file operand after '/usr/include/gdb'
Try 'cp --help' for more information.
root@localhost-live:~# echo "Тестовый файл equipment" > ~/equipment
root@localhost-live:~# mkdir ~/ski.plases
root@localhost-live:~# mv ~/equipment ~/ski.plases/
root@localhost-live:~# mv ~/ski.plases/equipment ~/ski.plases/equiplist
root@localhost-live:~# touch ~/abc1
root@localhost-live:~#
```

```
mv ~/ski.plases/equiplist2 ~/ski.plases/equipment/
root@localhost-live:~# mkdir ~/newdir
root@localhost-live:~# mv ~/newdir ~/ski.plases/plans
root@localhost-live:~# drwxr--r--
bash: drwxr--r--: command not found...
root@localhost-live:~# chmod 744 australia
chmod: cannot access 'australia': No such file or directory
root@localhost-live:~# chmod 744
chmod: missing operand after '744'
Try 'chmod --help' for more information.
root@localhost-live:~# chmod 744 play
chmod: cannot access 'play': No such file or directory
root@localhost-live:~# pwd
/root
root@localhost-live:~# ls -l
total 4
-rw-r--r--. 1 root root  26 Sep 25 07:22 abc1
drwxr-xr-x. 7 root root 360 Sep 25 07:15 arch-pc
drwxr-xr-x. 2 root root  60 Sep 25 07:16 bin
drwxr-xr-x. 3 root root 140 Sep 25 07:16 git-extended
drwxr-xr-x. 4 root root  80 Sep 25 07:22 ski.plases
root@localhost-live:~# mkdir play
root@localhost-live:~# chmod 744 play
root@localhost-live:~#
```

Смотрим директорию и проверяем работоспособность команд

```
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

fdisk: cannot open /dev/sdb: No such file or directory
root@localhost-live:~# mkfs.ext4 /dev/sdb1
mke2fs 1.47.2 (1-Jan-2025)
The file /dev/sdb1 does not exist and no size was specified.
root@localhost-live:~# mkdir -p /mnt/usb
root@localhost-live:~# mount /dev/sdb1 /mnt/usb
mount: /mnt/usb: fsconfig system call failed: /dev/sdb1: Can't lookup blockdev.
       dmesg(1) may have more information after failed mount system call.
root@localhost-live:~# sudo fsck /dev/sdb1
fsck from util-linux 2.40.4
e2fsck 1.47.2 (1-Jan-2025)
fsck.ext2: No such file or directory while trying to open /dev/sdb1
Possibly non-existent device?
root@localhost-live:~# sudo mkfs.ext4 /dev/sdb1
mke2fs 1.47.2 (1-Jan-2025)
The file /dev/sdb1 does not exist and no size was specified.
root@localhost-live:~# kill 1234
-bash: kill: (1234) - No such process
root@localhost-live:~# kill -9 1234
-bash: kill: (1234) - No such process
root@localhost-live:~#
```

Проверяем команды

Вывод: Ознакомились с файловой системой linux