EPAM University Programs DevOps external course Module 4 Linux Essentials TASK 4.3

1;2.

```
oobrov@bobrov-VirtualBox:~$ pwd
/home/bobrov
oobrov@bobrov-VirtualBox:~$ ls -1 /
total 1237684
                              4096 кві 5 01:19 bin
drwxr-xr-x 2 root root
drwxr-xr-x
          3 root root
                              4096 кві 12 13:47 boot
          2 root root
                              4096 кві 5 01:08 cdrom
drwxrwxr-x
drwxr-xr-x 18 root root
                              4220 кві 12 23:33 dev
                            12288 кві 12 20:29 etc
drwxr-xr-x 121 root root
                            4096 кві 5 01:09 home
drwxr-xr-x 3 root root
lrwxrwxrwx 1 root root
                                32 κBi 12 13:46 initrd.img -> boot/initrd.img-5.3.0-46-
generic
                                32 кві 12 13:46 initrd.img.old -> boot/initrd.img-5.3.0
lrwxrwxrwx 1 root root
-45-generic
drwxr-xr-x 21 root root
                              4096 кві
                                       5 01:10 lib
                                       3 20:22 lib64
drwxr-xr-x 2 root root
                              4096 лют
drwx----
           2 root root
                             16384 кві
                                       5 01:06 lost+found
drwxr-xr-x 3 root root
                              4096 кві
                                       5 01:24 media
                              4096 лют
                                       3 20:22 mnt
drwxr-xr-x
           2 root root
                              4096 кві 11 23:22 opt
drwxr-xr-x
          4 root root
dr-xr-xr-x 173 root root
                                 0 кві 12 23:32 proc
                              4096 кві 12 23:33 root
drwx----- 4 root root
drwxr-xr-x 27 root root
                               840 кві 12 23:33 run
                             12288 кві 12 23:33 sbin
drwxr-xr-x 2 root root
drwxr-xr-x 11 root root
                              4096 кві 5 01:16 snap
           2 root root
                              4096 лют
                                        3 20:22 srv
drwxr-xr-x
                                       5 01:06 swapfile
           1 root root 1267281920 кві
dr-xr-xr-x 13 root root
                                 0 кві 12 23:32 sys
                              4096 кві 12 23:33 tmp
drwxrwxrwt 12 root root
drwxr-xr-x 11 root root
                              4096 лют 3 20:25 usr
                              4096 лют
                                       3 20:30 var
drwxr-xr-x 14 root root
                               29 κΒi 12 13:46 vmlinuz -> boot/vmlinuz-5.3.0-46-generi
lrwxrwxrwx
          1 root root
           1 root root
                                29 κBi 12 13:46 vmlinuz.old -> boot/vmlinuz-5.3.0-45-ge
1rwxrwxrwx
neric
```

Commands show the contents of the folder. you can choose in what form the results are displayed and choose in which particular package to execute the commands.

```
neric
bobrov@bobrov-VirtualBox:~$ ls
Desktop Documents Downloads Music name Pictures Public Templates Videos
bobrov@bobrov-VirtualBox:~$ ls ~
Desktop Documents Downloads Music name Pictures Public Templates Videos
bobrov@bobrov-VirtualBox:~$ 1s -1
total 36
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov 55 кві 12 00:48 name
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Pictures
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Public
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Templates
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Videos
bobrov@bobrov-VirtualBox:~$ ls -a
              .bashrc Documents
                                     .lesshst name
                                                        .sudo as admin successful
.bash_history .config .gnupg
                                     .mozilla .profile Videos
.bash logout
              Desktop .ICEauthority Music
                                               Public
                                                        .Xauthority
bobrov@bobrov-VirtualBox:~$ 1s -la
total 92
drwxr-xr-x 15 bobrov bobrov 4096 кві 12 23:33 .
drwxr-xr-x 3 root root 4096 кві 5 01:09 ..
-rw----- 1 bobrov bobrov 3309 кві 12 21:19 .bash history
rw-r--r-- 1 bobrov bobrov 220 кві 5 01:09 .bash_logout
-rw-r--r-- 1 bobrov bobrov 3771 кві 5 01:09 .bashrc
drwx----- 13 bobrov bobrov 4096 кві 11 15:24 .cache
drwx----- 14 bobrov bobrov 4096 кві 11 23:25 .config
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwx----- 3 bobrov bobrov 4096 кві 5 01:12 .gnupg
rw----- 1 bobrov bobrov 3982 кві 12 21:07 .ICEauthority
```

```
-rw------ 1 bobrov bobrov 3982 kBi 12 21:07 .ICEauthority
-rw------ 1 bobrov bobrov 28 kBi 12 14:45 .lesshst

drwx----- 3 bobrov bobrov 4096 kBi 5 01:12 .local

drwx----- 5 bobrov bobrov 4096 kBi 5 01:17 .mozilla

drwxr-xr-x 2 bobrov bobrov 4096 kBi 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov 55 kBi 12 00:48 name

drwxr-xr-x 2 bobrov bobrov 4096 kBi 5 01:13 Pictures
-rw-r---- 1 bobrov bobrov 4096 kBi 5 01:09 .profile

drwxr-xr-x 2 bobrov bobrov 4096 kBi 5 01:13 Public
-rw-r---- 1 bobrov bobrov 4096 kBi 5 01:13 Public
-rw-r---- 1 bobrov bobrov 4096 kBi 5 01:13 Templates

drwxr-xr-x 2 bobrov bobrov 4096 kBi 5 01:13 Templates

drwxr-xr-x 2 bobrov bobrov 4096 kBi 5 01:13 Videos
-rw------ 1 bobrov bobrov 4096 kBi 5 01:13 Videos
-rw------ 1 bobrov bobrov 4096 kBi 12 23:33 .Xauthority

bobrov@bobrov-VirtualBox:~$ 1s -lda ~

drwxr-xr-x 15 bobrov bobrov 4096 kBi 12 23:33 /home/bobrov
```

3.

```
mkdir test - command creates a test folder.
cd test - command to go to the test folder.
pwd - command displays current path.
touch test.txt - command creates a new empty file test.txt.
1s -1 test.txt - command displays full information about the test.txt file.
mkdir test2 - command creates a folder "test2".
my test.txt test2 - command moves the test file to the test2 folder.
cd test2 - command to go to the folder "test2".
1s - command displays folder contents.
mv test.txt test2.txt - command renames the file test.txt to the file test2.txt.
1s - command displays folder contents.
cp_test2.txt ... - the command copies the file "test2.txt" to the folder one level
                 higher.
cd ... - command to go to the folder one level up.
1s - command displays folder contents.
rm test2.txt - command deletes the file "test2.txt".
rmdir test2 - command tries to delete the folder "test2", but it is not deleted because
             it is not empty.
```

```
bobrov@bobrov-VirtualBox:~$ mkdir test
bobrov@bobrov-VirtualBox:~$ cd test
bobrov@bobrov-VirtualBox:~/test$ pwd
/home/bobrov/test
bobrov@bobrov-VirtualBox:~/test$ touch test.txt
oobrov@bobrov-VirtualBox:~/test$ ls -1 test.txt
-rw-rw-r-- 1 bobrov bobrov 0 кві 13 00:05 test.txt
oobrov@bobrov-VirtualBox:~/test$ mkdir test2
bobrov@bobrov-VirtualBox:~/test$ mv test.txt test2
bobrov@bobrov-VirtualBox:~/test$ cd test2
bobrov@bobrov-VirtualBox:~/test/test2$ ls
test.txt
bobrov@bobrov-VirtualBox:~/test/test2$ mv test.txt test2.txt
bobrov@bobrov-VirtualBox:~/test/test2$ ls
test2.txt
oobrov@bobrov-VirtualBox:~/test/test2$ cp test2.txt ..
oobrov@bobrov-VirtualBox:~/test/test2$ cd ...
bobrov@bobrov-VirtualBox:~/test$ ls
test2 test2.txt
bobrov@bobrov-VirtualBox:~/test$ rm test2.txt
bobrov@bobrov-VirtualBox:~/test$ rmdir test2
rmdir: failed to remove 'test2': Directory not empty
```

4.

cat /etc/fstab
more /etc/fstab

```
oobrov@bobrov-VirtualBox:~$ more /etc/fstab
 /etc/fstab: static file system information.
 Use 'blkid' to print the universally unique identifier for a
 device; this may be used with UUID= as a more robust way to name devices
 that works even if disks are added and removed. See fstab(5).
 <file system> <mount point>
                               <type> <options>
                                                        <dump>
 / was on /dev/sda1 during installation
UUID=a532a8df-c97a-4cc2-bb53-44d66da3c5d5 /
                                                          ext4
                                                                  errors=remount-ro 0
/swapfile
obrov@bobrov-VirtualBox:~$ cat /etc/fstab
 /etc/fstab: static file system information.
 Use 'blkid' to print the universally unique identifier for a
 device; this may be used with UUID= as a more robust way to name devices
 that works even if disks are added and removed. See fstab(5).
 <file system> <mount point>
                               <type> <options>
                                                        <dump> <pass>
 / was on /dev/sda1 during installation
UUID=a532a8df-c97a-4cc2-bb53-44d66da3c5d5 /
                                                          ext4
                                                                  errors=remount-ro 0
/swapfile
                                                          swap
```

less /etc/fstab

The commands <code>more /etc/fstab</code> and <code>cat /etc/fstab</code> display the text of the file contents, and the command <code>less /etc/fstab</code> displays the text in the text viewer. The manual describes that the <code>less</code> and <code>more</code> commands essentially do the same thing, but a command <code>more</code> can only flip text down, and a command <code>less</code> can flip text up and down. But on my terminal command <code>more</code> behaves like <code>cat</code> command.

5.

test/test2/test2.txt

```
tar -cvzf testzipped.tar test

bobrov@bobrov-VirtualBox:~$ tar -cvf test.tar test

test/
test/test2/
test/test2/test2.txt

bobrov@bobrov-VirtualBox:~$ tar -cvzf testzipped.tar test

test/
test/test2/
```

```
gzip testzipped.tar
ls -l
```

tar -cvf test.tar test

```
oobrov@bobrov-VirtualBox:~$ gzip testzipped.tar
bobrov@bobrov-VirtualBox:~$ ls -1
total 60
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov 55 кві 12 00:48 name
drwxr-xr-x 2 bobrov bobrov 4096 κΒi 5 01:13 Pictures
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Public
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Templates
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 00:07 test
-rw-rw-r-- 1 bobrov bobrov 167 кві 13 02:20 testgzipped.tgz
-rw-rw-r-- 1 bobrov bobrov 10240 кві 13 02:07 test.tar
rw-rw-r-- 1 bobrov bobrov 201 кві 13 02:11 testzipped.tar.gz
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Videos
```

```
mkdir testtar
tar -xvf test.tar -C testtar
ls =1
```

```
bobrov@bobrov-VirtualBox:~$ mkdir testtar
bobrov@bobrov-VirtualBox:~$ tar -xvf test.tar testtar
tar: testtar: Not found in archive
tar: Exiting with failure status due to previous errors
bobrov@bobrov-VirtualBox:~$ mkdir testtar
bobrov@bobrov-VirtualBox:~$ tar -xvf test.tar -C testtar
test/
test/test2/
test/test2/test2.txt
bobrov@bobrov-VirtualBox:~$ ls -l
total 64
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov 55 кві 12 00:48 name
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Pictures
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Public
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Templates
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 00:07 test
-rw-rw-r-- 1 bobrov bobrov 167 кві 13 02:20 testgzipped.tgz
drwxrwxr-x 3 bobrov bobrov 4096 κΒi 13 02:39 testtar
rw-rw-r-- 1 bobrov bobrov 10240 кві 13 02:07 test.tar
rw-rw-r-- 1 bobrov bobrov
                           201 κBi 13 02:11 testzipped.tar.gz
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Videos
```

mkdir testzippedtar
tar -xvf testgzipped.tgz -C testzippedtar

```
bobrov@bobrov-VirtualBox:~$ tar -xvf testgzipped.tgz -C testzippedtar
test/
test/test2/
test/test2/test2.txt
bobrov@bobrov-VirtualBox:~$ ls -l
total 68
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwxr-xr-x 2 bobrov bobrov 4096 κΒi 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov
                          55 кві 12 00:48 name
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Pictures
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Public
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Templates
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 00:07 test
rw-rw-r-- 1 bobrov bobrov
                          167 kBi 13 02:20 testgzipped.tgz
drwxrwxr-x 3 bobrov bobrov 4096 κΒi 13 02:39 testtar
-rw-rw-r-- 1 bobrov bobrov 10240 кві 13 02:07 test.tar
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 02:48 testzippedtar
-rw-rw-r-- 1 bobrov bobrov
                          201 кві 13 02:11 testzipped.tar.gz
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Videos
```

gunzip testzipped.tar.gz ls -l

```
bobrov@bobrov-VirtualBox:~$ gunzip testzipped.tar.gz
oobrov@bobrov-VirtualBox:~$ ls -1
total 68
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Desktop
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Documents
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Downloads
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Music
-rw-rw-r-- 1 bobrov bobrov 55 кві 12 00:48 name
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Pictures
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Public
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Templates
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 00:07 test
-rw-rw-r-- 1 bobrov bobrov 167 кві 13 02:20 testgzipped.tgz
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 02:39 testtar
-rw-rw-r-- 1 bobrov bobrov 10240 кві 13 02:07 test.tar
drwxrwxr-x 3 bobrov bobrov 4096 кві 13 02:48 testzippedtar
-rw-rw-r-- 1 bobrov bobrov 167 кві 13 02:11 testzipped.tar
drwxr-xr-x 2 bobrov bobrov 4096 кві 5 01:13 Videos
```