

## Пшеничнов Глеб ПМ20-5 ДЗ 3

```
root@213.171.9.159's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-86-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Oct 16 06:16:53 PM MSK 2023

System load: 0.01220703125      Processes:           101
Usage of /:  24.6% of 14.68GB   Users logged in:    0
Memory usage: 19%              IPv4 address for eth0: 213.171.9.159
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

root@2079199-bx01485:~#
```

```
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Oct 16 06:16:53 PM MSK 2023

System load: 0.01220703125      Processes:           101
Usage of /:  24.6% of 14.68GB   Users logged in:    0
Memory usage: 19%              IPv4 address for eth0: 213.171.9.159
Swap usage:  0%

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See https://ubuntu.com/esm or run: sudo pro status

root@2079199-bx01485:~# cd
root@2079199-bx01485:~# ls -a
.      .ansible      .bashrc      .profile     snap
..     .bash_history .cache       resize.log   .ssh
root@2079199-bx01485:~#
```

```
Usage of /: 24.6% of 14.68GB  Users logged in: 0
Memory usage: 19%           IPv4 address for eth0: 213.171.9.159
Swap usage: 0%
```

Expanded Security Maintenance for Applications is not enabled.

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Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: `sudo pro status`

```
root@2079199-bx01485:~# cd
root@2079199-bx01485:~# ls -a
.  .ansible  .bashrc  .profile  snap
.. .bash_history  .cache  resize.log  .ssh
root@2079199-bx01485:~# cd
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/# ls -a
.  boot  home  lib64  media  proc  sbin  swap.img  usr
.. dev  lib  libx32  mnt  root  snap  sys  var
bin  etc  lib32  lost+found  opt  run  srv  tmp
root@2079199-bx01485:/#
```

## etc/passwd

```
GNU nano 6.2 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/

[ Read 34 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```



# user.txt

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: `sudo pro status`

```
root@2079199-bx01485:~# cd
root@2079199-bx01485:~# ls -a
.      .ansible      .bashrc      .profile      snap
..     .bash_history  .cache       resize.log    .ssh
root@2079199-bx01485:~# cd
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/# ls -a
.      boot  home  lib64      media  proc  sbin  swap.img  usr
..     dev   lib   libx32     mnt    root  snap  sys       var
bin    etc   lib32  lost+found opt     run   srv   tmp
root@2079199-bx01485:/# sudo nano /etc/passwd;
root@2079199-bx01485:/# touch user.txt
root@2079199-bx01485:/# ls -a
.      boot  home  lib64      media  proc  sbin  swap.img  user.txt  usr
..     dev   lib   libx32     mnt    root  snap  sys       var
bin    etc   lib32  lost+found opt     run   srv   tmp
```

## nanika test

```
root@2079199-bx01485:/
.      boot  home  lib64      media  proc  sbin  swap.img  usr
..     dev   lib   libx32     mnt    root  snap  sys       var
bin    etc   lib32  lost+found opt     run   srv   tmp
root@2079199-bx01485:/# sudo nano /etc/passwd;
root@2079199-bx01485:/# touch user.txt
root@2079199-bx01485:/# ls -a
.      boot  home  lib64      media  proc  sbin  swap.img  user.txt  usr
..     dev   lib   libx32     mnt    root  snap  sys       var
bin    etc   lib32  lost+found opt     run   srv   tmp
root@2079199-bx01485:/# mkdir test
root@2079199-bx01485:/# ls -a
.      boot  home  lib64      media  proc  sbin  swap.img  tmp      var
..     dev   lib   libx32     mnt    root  snap  sys       user.txt
bin    etc   lib32  lost+found opt     run   srv   test     usr
root@2079199-bx01485:/# ~cd test
Command '~cd' not found, did you mean:
  command 'bcd' from deb bsdgames (2.17-29)
  command 'mcd' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'hcd' from deb hfsutils (3.2.6-15build2)
Try: apt install <deb name>
root@2079199-bx01485:/# cd test
root@2079199-bx01485:/test# cd
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/#
```

```

root@2079199-bx01485:/# touch user.txt
root@2079199-bx01485:/# ls -a
.    boot  home  lib64      media  proc  sbin  swap.img  user.txt
..   dev    lib   libx32     mnt    root  snap  sys       usr
bin  etc    lib32  lost+found  opt    run   srv   tmp       var
root@2079199-bx01485:/# mkdir test
root@2079199-bx01485:/# ls -a
.    boot  home  lib64      media  proc  sbin  swap.img  tmp       var
..   dev    lib   libx32     mnt    root  snap  sys       user.txt
bin  etc    lib32  lost+found  opt    run   srv   test      usr
root@2079199-bx01485:/# ~cd test
Command '~cd' not found, did you mean:
  command 'bcd' from deb bsdgames (2.17-29)
  command 'mcd' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'hcd' from deb hfsutils (3.2.6-15build2)
Try: apt install <deb name>
root@2079199-bx01485:/# cd test
root@2079199-bx01485:/test# cd
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/# mv user.txt /test
root@2079199-bx01485:/# cd test
root@2079199-bx01485:/test# ls -a
.  ..  user.txt
root@2079199-bx01485:/test#

```

## задание 2

```

root@213.171.9.159's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-86-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Oct 16 06:34:08 PM MSK 2023

System load:  0.0          Processes:      99
Usage of /:   24.6% of 14.08GB  Users logged in: 1
Memory usage: 20%          IPv4 address for eth0: 213.171.9.159
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Mon Oct 16 18:27:20 2023 from 185.246.195.158
root@2079199-bx01485:~# tty
/dev/pts/1
root@2079199-bx01485:~# pwd
/root
root@2079199-bx01485:~#

Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-86-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Oct 16 06:35:35 PM MSK 2023

System load:  0.000078125    Processes:      100
Usage of /:   24.6% of 14.08GB  Users logged in: 1
Memory usage: 20%          IPv4 address for eth0: 213.171.9.159
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Mon Oct 16 18:34:09 2023 from 185.246.195.158
root@2079199-bx01485:~# who
root    pts/0      2023-10-16 18:16 (185.246.195.158)
root    pts/1      2023-10-16 18:34 (185.246.195.158)
root    pts/2      2023-10-16 18:35 (185.246.195.158)
root@2079199-bx01485:~# whoami
root
root@2079199-bx01485:~#

```



System information as of Mon Oct 16 06:37:04 PM MSK 2023

```
System load: 0.0166015625      Processes:          98
Usage of /:  24.6% of 14.68GB   Users logged in:   1
Memory usage: 21%              IPv4 address for eth0: 213.171.9.159
Swap usage:  0%
```

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Mon Oct 16 18:37:05 2023 from 185.246.195.158

```
root@2079199-bx01485:~# grep
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
root@2079199-bx01485:~# grep "root" /etc/passwd
root:x:0:0:root:/root:/bin/bash
root@2079199-bx01485:~#
```

## Команды

TTY(1)	User Commands	TTY(1)
NAME	<code>tty</code> - print the file name of the terminal connected to standard input	
SYNOPSIS	<code>tty</code> [ <u>OPTION</u> ]...	
DESCRIPTION	Print the file name of the terminal connected to standard input.  <code>-s, --silent, --quiet</code> print nothing, only return an exit status  <code>--help</code> display this help and exit  <code>--version</code> 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/</a> > Report any translation bugs to < <a href="https://translationproject.org/team/">https://translationproject.org/team/</a> >	
COPYRIGHT	Copyright © 2020 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.	

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

## 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 supersedes the version described here. Please refer to your shell's documentation for details about the options it supports.

## AUTHOR

Written by Jim Meyering.

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

```
root@2079199-bx01485:~# grep "root" /etc/passwd
root:x:0:0:root:/root:/bin/bash
root@2079199-bx01485:~# man tty
root@2079199-bx01485:~# man pwd
root@2079199-bx01485:~# ccd /
Command 'ccd' not found, did you mean:
  command 'ccl' from deb cclive (0.9.3-0.2build1)
  command 'cccd' from deb cccd (0.3beta4-7.1build1)
  command 'mcd' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'bcd' from deb bsdgames (2.17-29)
  command 'cc' from deb gcc (4:11.2.0-1ubuntu1)
  command 'cc' from deb clang (1:14.0-55~exp2)
  command 'cc' from deb pentium-builder (0.21ubuntu1)
  command 'cc' from deb tcc (0.9.27+git20200814.62c30a4a-1)
  command 'ccx' from deb calculix-ccx (2.17-3)
  command 'cct' from deb proj-bin (8.2.1-1)
  command 'hcd' from deb hfsutils (3.2.6-15build2)
  command 'cdcd' from deb cdcd (0.6.6-13.1build2)
  command 'ccr' from deb codecrypt (1.8-1build2)
Try: apt install <deb name>
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/# man pwd
root@2079199-bx01485:/# man who
root@2079199-bx01485:/# man whoami
root@2079199-bx01485:/# man exit
No manual entry for exit
root@2079199-bx01485:/# man less
root@2079199-bx01485:/# man grep
root@2079199-bx01485:/# shutdown
Shutdown scheduled for Mon 2023-10-16 18:42:18 MSK, use 'shutdown -c' to cancel.
root@2079199-bx01485:/# shutdown -c
root@2079199-bx01485:/#
```



### Задания 3:

```
root@2079199-bx01485:~# man pwd
root@2079199-bx01485:~# ccd /
Command 'ccd' not found, did you mean:
  command 'ccl' from deb cclive (0.9.3-0.2build1)
  command 'cccd' from deb cccd (0.3beta4-7.1build1)
  command 'mcd' from deb mtools (4.0.33-1+really4.0.32-1build1)
  command 'bcd' from deb bsdgames (2.17-29)
  command 'cc' from deb gcc (4:11.2.0-1ubuntu1)
  command 'cc' from deb clang (1:14.0-55~exp2)
  command 'cc' from deb pentium-builder (0.21ubuntu1)
  command 'cc' from deb tcc (0.9.27+git20200814.62c30a4a-1)
  command 'ccx' from deb calculix-ccx (2.17-3)
  command 'cct' from deb proj-bin (8.2.1-1)
  command 'hcd' from deb hfsutils (3.2.6-15build2)
  command 'cdcd' from deb cdcd (0.6.6-13.1build2)
  command 'ccr' from deb codecrypt (1.8-1build2)
Try: apt install <deb name>
root@2079199-bx01485:~# cd /
root@2079199-bx01485:/# man pwd
root@2079199-bx01485:/# man who
root@2079199-bx01485:/# man whoami
root@2079199-bx01485:/# man exit
No manual entry for exit
root@2079199-bx01485:/# man less
root@2079199-bx01485:/# man grep
root@2079199-bx01485:/# shutdown
Shutdown scheduled for Mon 2023-10-16 18:42:18 MSK, use 'shutdown -c' to cancel.
root@2079199-bx01485:/# shutdown -c
root@2079199-bx01485:/# mkdir ~/src ~/dst ~/temp
root@2079199-bx01485:/# cd ~/temp
touch user.txt root.txt stud.txt
root@2079199-bx01485:~/temp#
```

Shutdown scheduled for Mon 2023-10-16 18:42:18 MSK, use 'shutdown -c' to cancel.

```
root@2079199-bx01485:/# shutdown -c
root@2079199-bx01485:/# mkdir ~/src ~/dst ~/temp
root@2079199-bx01485:/# cd ~/temp
touch user.txt root.txt stud.txt
root@2079199-bx01485:~/temp# cp ~/temp/user.txt ~/src/
root@2079199-bx01485:~/temp# cp ~/temp/root.txt ~/src/
root@2079199-bx01485:~/temp# cp ~/temp/stud.txt ~/src/
root@2079199-bx01485:~/temp# ln ~/src/user.txt ~/dst/user_link.txt
root@2079199-bx01485:~/temp# ln ~/src/root.txt ~/dst/root_link.txt
root@2079199-bx01485:~/temp# ln ~/src/stud.txt ~/dst/stud_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/user.txt ~/user_soft_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/root.txt ~/root_soft_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/stud.txt ~/stud_soft_link.txt
root@2079199-bx01485:~/temp# du -h ~
4.0K      /root/.ssh
4.0K      /root/.cache
4.0K      /root/src
4.0K      /root/.ansible/tmp
8.0K      /root/.ansible
4.0K      /root/dst
4.0K      /root/.local/share/nano
8.0K      /root/.local/share
12K       /root/.local
4.0K      /root/snap/lxd/24322
4.0K      /root/snap/lxd/22923
4.0K      /root/snap/lxd/common
16K       /root/snap/lxd
20K       /root/snap
4.0K      /root/temp
88K       /root
root@2079199-bx01485:~/temp#
```

```
4.0K    /root/.local/share/nano
8.0K    /root/.local/share
12K     /root/.local
4.0K    /root/snap/lxd/24322
4.0K    /root/snap/lxd/22923
4.0K    /root/snap/lxd/common
16K     /root/snap/lxd
20K     /root/snap
4.0K    /root/temp
88K     /root
root@2079199-bx01485:~/temp# cat src/user.txt
cat: src/user.txt: No such file or directory
root@2079199-bx01485:~/temp# cd
root@2079199-bx01485:~# cat src/user.txt
root@2079199-bx01485:~# cat dst/user.txt
cat: dst/user.txt: No such file or directory
root@2079199-bx01485:~# cat user.txt
cat: user.txt: No such file or directory
root@2079199-bx01485:~# tar -czvf ~/src.tar.gz ~/src
tar: Removing leading '/' from member names
/root/src/
/root/src/user.txt
tar: Removing leading '/' from hard link targets
/root/src/stud.txt
/root/src/root.txt
root@2079199-bx01485:~# tar -xzvf ~/src.tar.gz -C ~/backup
tar: /root/backup: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
root@2079199-bx01485:~# find ~/ -name "*.txt"
/root/user_soft_link.txt
/root/src/user.txt
/root/src/stud.txt
/root/src/root.txt
/root/root_soft_link.txt
/root/stud_soft_link.txt
/root/dst/stud_link.txt
/root/dst/user_link.txt
/root/dst/root_link.txt
/root/temp/user.txt
/root/temp/stud.txt
/root/temp/root.txt
root@2079199-bx01485:~# rm ~/user.txt
rm: cannot remove '/root/user.txt': No such file or directory
root@2079199-bx01485:~# rm -r ~/dst
root@2079199-bx01485:~# mv ~/temp ~/src/
root@2079199-bx01485:~# rm -r ~/src
root@2079199-bx01485:~#
```



## Задание 4

```
root@2079199-bx01485:~# cd /
root@2079199-bx01485:~# man pwd
root@2079199-bx01485:~# man who
root@2079199-bx01485:~# man whoami
root@2079199-bx01485:~# man exit
No manual entry for exit
root@2079199-bx01485:~# man less
root@2079199-bx01485:~# man grep
root@2079199-bx01485:~# shutdown
Shutdown scheduled for Mon 2023-10-16 18:42:18 MSK, use 'shutdown -c' to cancel.
root@2079199-bx01485:~# shutdown -c
root@2079199-bx01485:~# mkdir ~/src ~/dst ~/temp
root@2079199-bx01485:~# cd ~/temp
touch user.txt root.txt stud.txt
root@2079199-bx01485:~/temp# cp ~/temp/user.txt ~/src/
root@2079199-bx01485:~/temp# cp ~/temp/root.txt ~/src/
root@2079199-bx01485:~/temp# cp ~/temp/stud.txt ~/src/
root@2079199-bx01485:~/temp# ln ~/src/user.txt ~/dst/user_link.txt
root@2079199-bx01485:~/temp# ln ~/src/root.txt ~/dst/root_link.txt
root@2079199-bx01485:~/temp# ln ~/src/stud.txt ~/dst/stud_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/user.txt ~/user_soft_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/root.txt ~/root_soft_link.txt
root@2079199-bx01485:~/temp# ln -s ~/src/stud.txt ~/stud_soft_link.txt
root@2079199-bx01485:~/temp# du -h ~
4.0K    /root/.ssh
4.0K    /root/.cache
4.0K    /root/src
4.0K    /root/.ansible/tmp
8.0K    /root/.ansible
4.0K    /root/dst
4.0K    /root/.local/share/nano
8.0K    /root/.local/share
12K     /root/.local
4.0K    /root/snap/lxd/24322
4.0K    /root/snap/lxd/22923
4.0K    /root/snap/lxd/common
16K     /root/snap/lxd
20K     /root/snap
4.0K    /root/temp
88K     /root
root@2079199-bx01485:~/temp# cat src/user.txt
cat: src/user.txt: No such file or directory
root@2079199-bx01485:~/temp# cd
root@2079199-bx01485:~# cat src/user.txt
root@2079199-bx01485:~# cat dst/user.txt
cat: dst/user.txt: No such file or directory
root@2079199-bx01485:~# cat user.txt
cat: user.txt: No such file or directory
root@2079199-bx01485:~# tar -czvf ~/src.tar.gz ~/src
```

```

rm: cannot remove '/root/user.txt': No such file or directory
root@2079199-bx01485:~# rm -r ~/dst
root@2079199-bx01485:~# mv ~/temp ~/src/
root@2079199-bx01485:~# rm -r ~/src
root@2079199-bx01485:~# cat /etc/passwd
cat /etc/shadow
cat /etc/group
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-network:x:101:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:102:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:104::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:104:105:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
pollinate:x:105:1::/var/cache/pollinate:/bin/false
sshd:x:106:65534::/run/ssh:/usr/sbin/nologin
syslog:x:107:113::/home/syslog:/usr/sbin/nologin
uidd:x:108:114::/run/uidd:/usr/sbin/nologin
tcpdump:x:109:115::/nonexistent:/usr/sbin/nologin
tss:x:110:116:TPM software stack,,,:/var/lib/tpm:/bin/false
landscape:x:111:117::/var/lib/landscape:/usr/sbin/nologin
usbmux:x:112:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
lxd:x:999:100::/var/snap/lxd/common/lxd:/bin/false
zabbix:x:998:999::/nonexistent:/sbin/nologin
fwupd-refresh:x:113:118:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin
root:$y$j9T$HB4HUz2fXuTasnW8e2WV1/$B9zD0tDQqLXLFFAdvkbXKXO.krThjfpIXsgddvmdxaA:19646:0:99999:7:::
daemon*:19213:0:99999:7:::
bin*:19213:0:99999:7:::
sys*:19213:0:99999:7:::
sync*:19213:0:99999:7:::
games*:19213:0:99999:7:::
man*:19213:0:99999:7:::
lp*:19213:0:99999:7:::

```



```
sgx:x:107:
kvm:x:108:
render:x:109:
lxd:x:110:
_ssh:x:111:
crontab:x:112:
syslog:x:113:
uidd:x:114:
tcpdump:x:115:
tss:x:116:
landscape:x:117:
netdev:x:1000:
zabbix:x:999:
fwupd-refresh:x:118:
root@2079199-bx01485:~# sudo groupadd workers
sudo groupadd teachers
sudo groupadd students
root@2079199-bx01485:~# sudo useradd -u 2001 -m user_1
sudo useradd -u 2002 -m user_2
sudo useradd -u 2003 -m user_3
sudo useradd -u 2004 -m user_4
sudo useradd -u 2005 -m user_5
root@2079199-bx01485:~# sudo usermod -aG workers user_1
sudo usermod -aG workers user_2
root@2079199-bx01485:~# sudo usermod -aG students user_3
sudo usermod -aG students user_4
sudo usermod -aG students user_5
sudo usermod -aG students student
root@2079199-bx01485:~# sudo passwd user_1
sudo passwd user_2
sudo passwd user_3
sudo passwd user_4
sudo passwd user_5
sudo passwd student
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
New password:
Retype new password:
passwd: password updated successfully
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
New password:
```

```
sudo passwd student
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
New password:
Retype new password:
passwd: password updated successfully
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
New password:
Retype new password:
passwd: password updated successfully
New password:
Retype new password:
passwd: password updated successfully
New password:
Retype new password:
passwd: password updated successfully
root@2079199-bx01485:~# sudo mkdir /labs
sudo mkdir /labs/library
sudo mkdir /labs/tests
root@2079199-bx01485:~# sudo ls /etc > /labs/list
root@2079199-bx01485:~# sudo chown teacher /labs/list
sudo chmod 640 /labs/list
chown: invalid user: 'teacher'
root@2079199-bx01485:~# sudo usermod -aG workers teacher
usermod: user 'teacher' does not exist
root@2079199-bx01485:~# sudo useradd -u 2001 -m teacher
useradd: UID 2001 is not unique
root@2079199-bx01485:~# sudo useradd -u 2023 -m teacher
root@2079199-bx01485:~# sudo usermod -aG workers teacher
root@2079199-bx01485:~# sudo usermod -aG students teacher
root@2079199-bx01485:~# sudo chown teacher /labs/list
root@2079199-bx01485:~# sudo chmod 640 /labs/list
root@2079199-bx01485:~# sudo chown teacher /labs/library
sudo chown teacher /labs/tests
sudo chmod 770 /labs/library
sudo chmod 770 /labs/tests
root@2079199-bx01485:~# sudo chmod 755 /labs/library
sudo chmod 755 /labs/tests
root@2079199-bx01485:~#
```



## Задание 5

```
login as: student
student@213.171.9.159's password:
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.0-86-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Oct 16 06:53:48 PM MSK 2023

System load:  0.0                       Processes:            104
Usage of /:   24.7% of 14.68GB          Users logged in:     1
Memory usage: 21%                      IPv4 address for eth0: 213.171.9.159
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
```

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Mon Oct 16 18:37:55 2023 from 185.246.195.158

root@2079199-bx01485:~# touch ~/u1 ~/u2 ~/u3

root@2079199-bx01485:~# ls -l ~ > ~/listing1

root@2079199-bx01485:~# cat ~/listing1

total 16

-rw-r--r-- 1 root root 0 Oct 16 18:59 listing1

-rw-r--r-- 1 root root 4627 Oct 16 15:09 resize.log

lrwxrwxrwx 1 root root 18 Oct 16 18:44 root\_soft\_link.txt -> /root/src/root.tx

c

drwx----- 3 root root 4096 Oct 11 11:04 snap

-rw-r--r-- 1 root root 170 Oct 16 18:45 src.tar.gz

lrwxrwxrwx 1 root root 18 Oct 16 18:44 stud\_soft\_link.txt -> /root/src/stud.tx

c

-rw-r--r-- 1 root root 0 Oct 16 18:59 u1

-rw-r--r-- 1 root root 0 Oct 16 18:59 u2

-rw-r--r-- 1 root root 0 Oct 16 18:59 u3

lrwxrwxrwx 1 root root 18 Oct 16 18:44 user\_soft\_link.txt -> /root/src/user.tx

c

root@2079199-bx01485:~# sudo touch /root/r1 /root/r2 /root/r3

root@2079199-bx01485:~# ls -l ~ >> ~/listing1

root@2079199-bx01485:~# cd /home/student

root@2079199-bx01485:/home/student# chmod 640 u1

chmod 666 r1

chmod: cannot access 'r1': No such file or directory

root@2079199-bx01485:/home/student# chmod 666 u1

root@2079199-bx01485:/home/student# chown root:stud u1 u2

chown: invalid group: 'root:stud'

root@2079199-bx01485:/home/student# chown root:student u1 u2

root@2079199-bx01485:/home/student# sudo mkdir /home/shared /home/shared/pub /ho

me/shared/upload /home/shared/temp

root@2079199-bx01485:/home/student# sudo chown root:users /home/shared/pub

root@2079199-bx01485:/home/student# sudo chown nobody:users /home/shared/upload

root@2079199-bx01485:/home/student# sudo chown stud:users /home/shared/temp

chown: invalid user: 'stud:users'

root@2079199-bx01485:/home/student# sudo chown student:users /home/shared/temp

root@2079199-bx01485:/home/student# sudo chmod 775 /home/shared/pub

root@2079199-bx01485:/home/student# sudo chmod 130 /home/shared/upload

root@2079199-bx01485:/home/student# sudo chmod 777 /home/shared/temp

root@2079199-bx01485:/home/student#