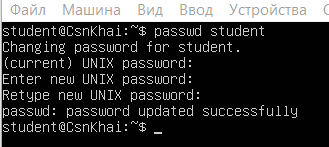
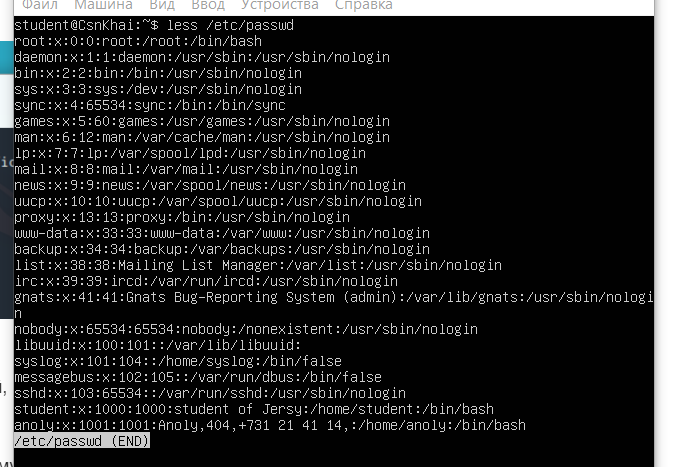
Task 1

1) Log in to the system as root.

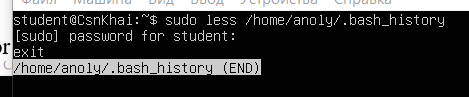


2) Use the passwd command to change the password. Examine the basic parameters of the command. What system file does it change \*?  
  
etc/passwd and etc/shadow

3) Determine the users registered in the system, as well as what commands they execute. What additional information can be gleaned from the command execution?

We can use less /etc/passwd for list of users  


For check their bash history we can check .bash\_history in their home catalog under root   
**sudo less /home/username/.bash\_history**

****

4)

5) Become familiar with the Linux help system and the man and info commands. Get help on the previously discussed commands, define and describe any two keys for these commands. Give examples

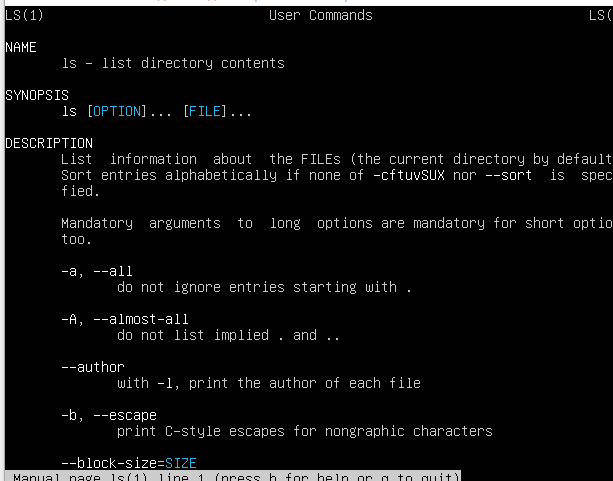
Using man for ls command

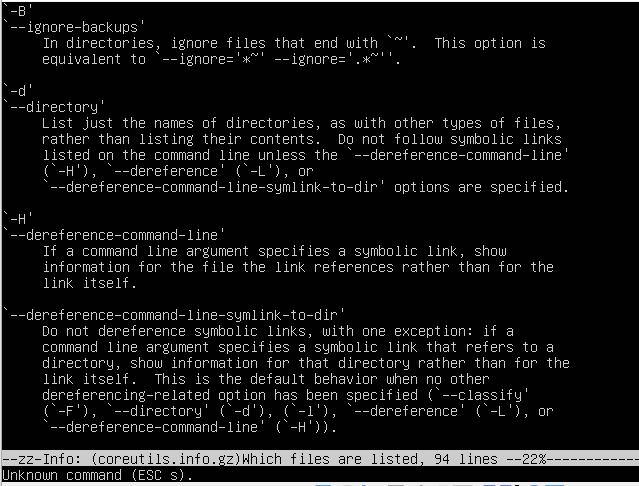
-a key – do not ignore entries starting with .

-r key – reverse order while sorting

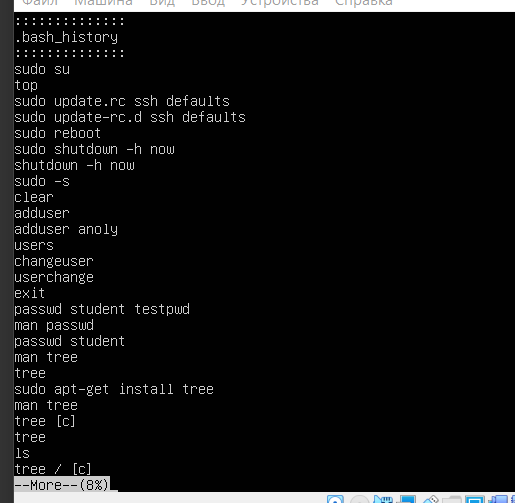
Using man for passwd:

-d (--delete) – delete user’s password  
-l (--lock) - lock the password of the named account

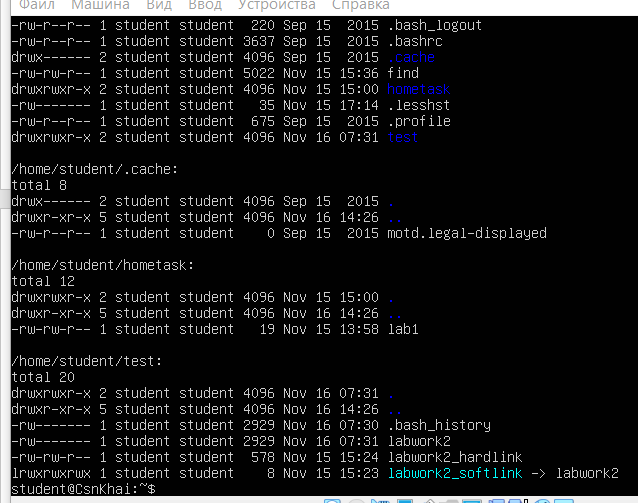


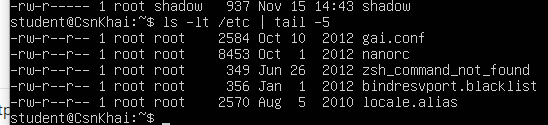


6) more .bash\*



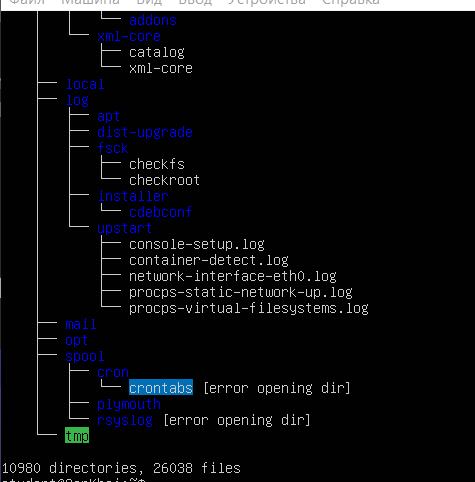
8) ls /home -Rla

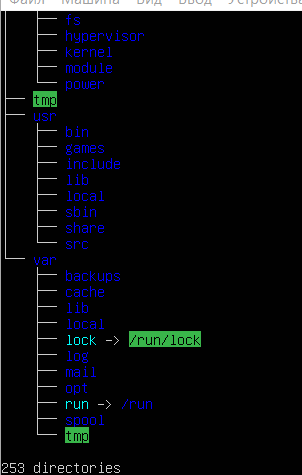




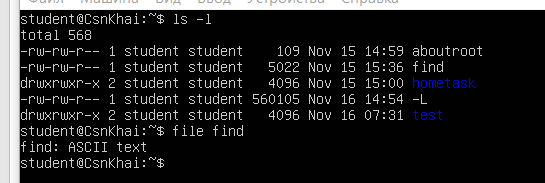
Part 2

1) Examine the tree command. Master the technique of applying a template, for example, display all files that contain a character c, or files that contain a specific sequence of characters. List subdirectories of the root directory up to and including the second nesting level

Display all files that contain a character c in root directory: tree –P ‘\*c\*’ /  
List subdirectories of the root directory up to and including the second nesting level: tree -L 2 -d /

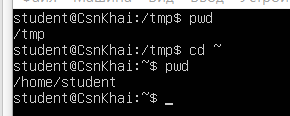


2) What command can be used to determine the type of file (for example, text or binary)? Give an example

For 1 file we can use command “file” and for several files we can use ls with -l switch. The first symbol will show us type of the file (-,d,l,c,s,p,b) 

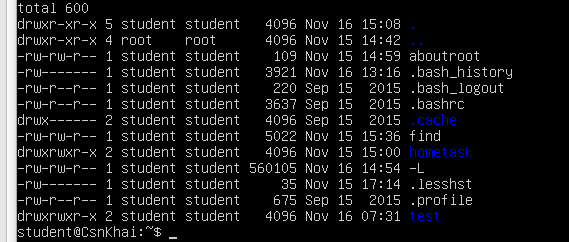
3) What command can be used to determine the type of file (for example, text or binary)? Give an example

using cd ~



4) Become familiar with the various options for the ls command. Give examples of listing directories using different keys. Explain the information displayed on the terminal using the -l and -a switches.

flag -l displays details about files like: access rights, creator, owner. -a switch displays also hidden files



5) Perform the following sequence of operations:

- create a subdirectory in the home directory;

- in this subdirectory create a file containing information about directories located in the root directory (using I/O redirection operations);

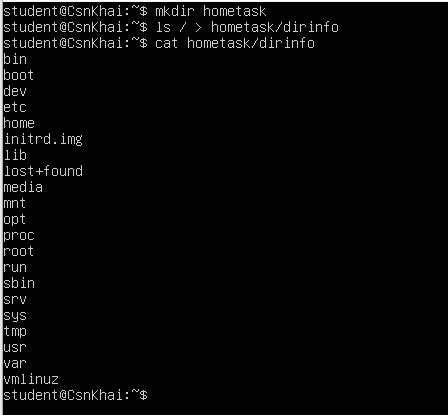
- view the created file;

- copy the created file to your home directory using relative and absolute addressing.

- delete the previously created subdirectory with the file requesting removal;

- delete the file copied to the home directory.   
mkdir hometask

ls / > hometask/dirinfo

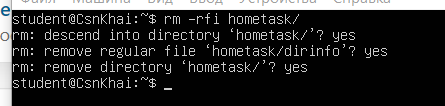
cat hometask/dirinfo  


cp hometask/dirinfo ~

cp /home/student/hometask/dirinfo /home/student



rm -rfi hometask



6) Perform the following sequence of operations:

- create a subdirectory test in the home directory;

- copy the .bash\_history file to this directory while changing its name to labwork2;

- create a hard and soft link to the labwork2 file in the test subdirectory;

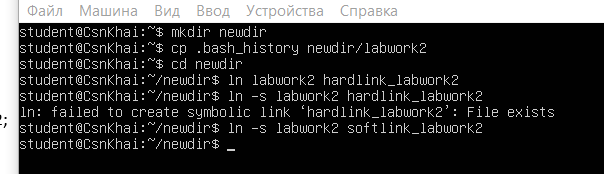
- how to define soft and hard link, what do these concepts;

- change the data by opening a symbolic link. What changes will happen and why

- rename the hard link file to hard\_lnk\_labwork2;

- rename the soft link file to symb\_lnk\_labwork2 file;

- then delete the labwork2. What changes have occurred and why



mkdir newdir

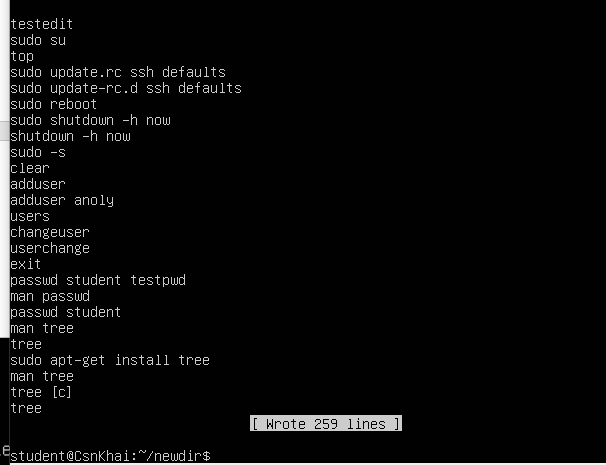
cp .bash\_history newdir/labwork2

cd newdir

ln labowrk2 hardlink\_labwork2

ln -s softlink\_labwork2

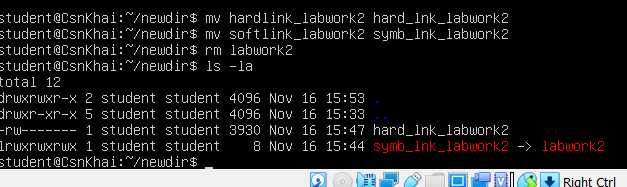
nano softlink\_labwork2

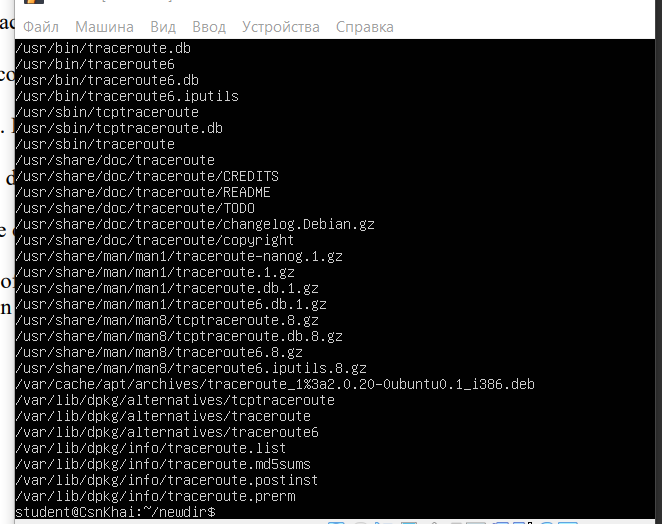


mv hardlink\_labwork2 hard\_lnk\_labwork2

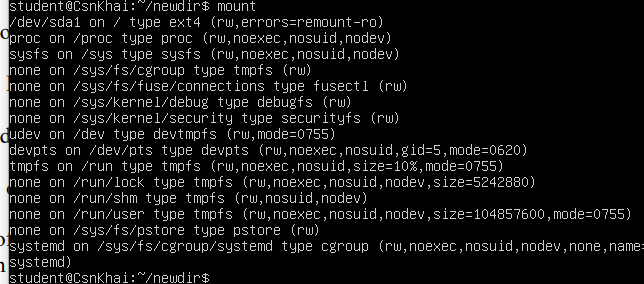
mv softlink\_labwork2 symb\_lnk\_labwork2

rm labwork2



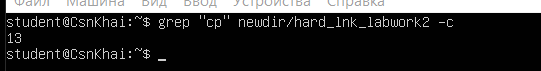
7) Using the locate utility, find all files that contain the squid and traceroute sequence.

8) Determine which partitions are mounted in the system, as well as the types of these partitions

mount

9) Count the number of lines containing a given sequence of characters in a given file.

grep “cp” newdir/hard\_lnk\_labwork2 -c



11) using find: find /etc -exec grep -rlw “ss” {} \;

Using grep: grep -rl “ss” /etc