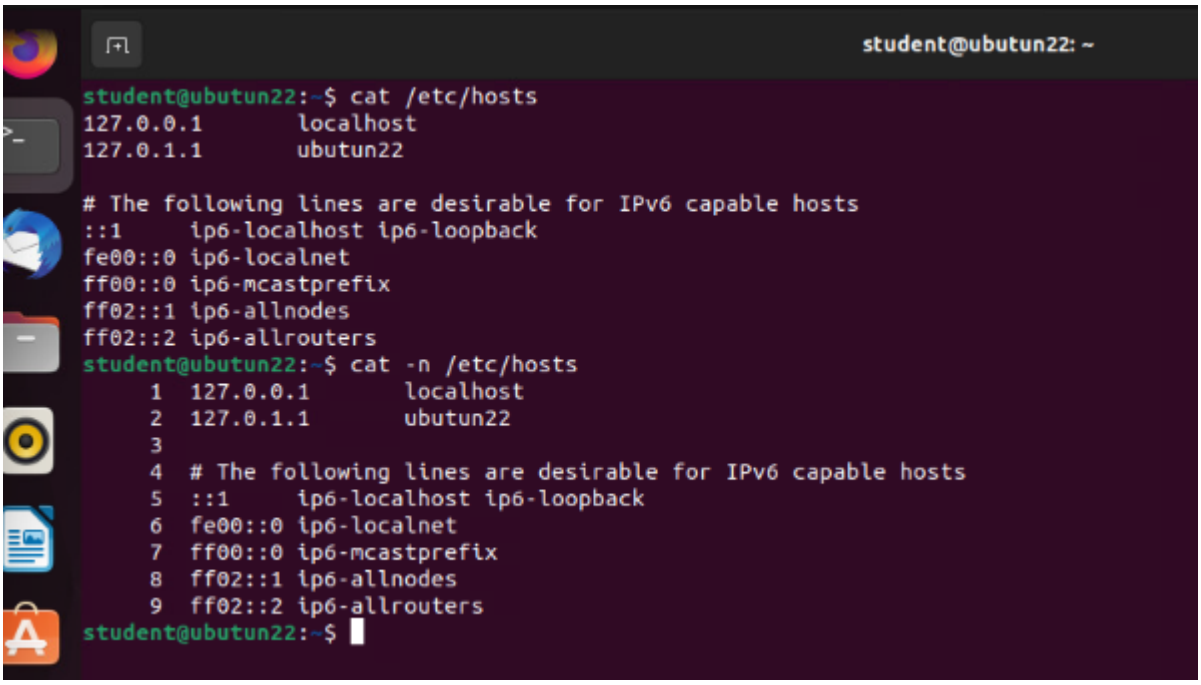
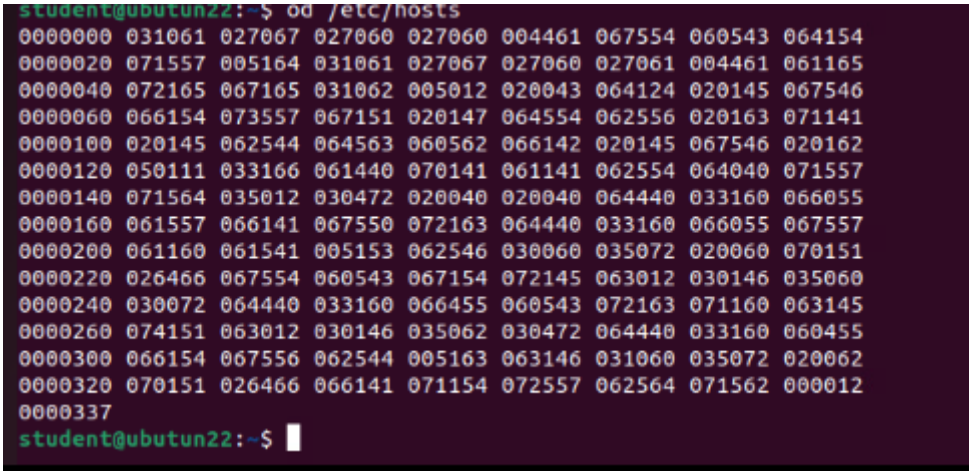
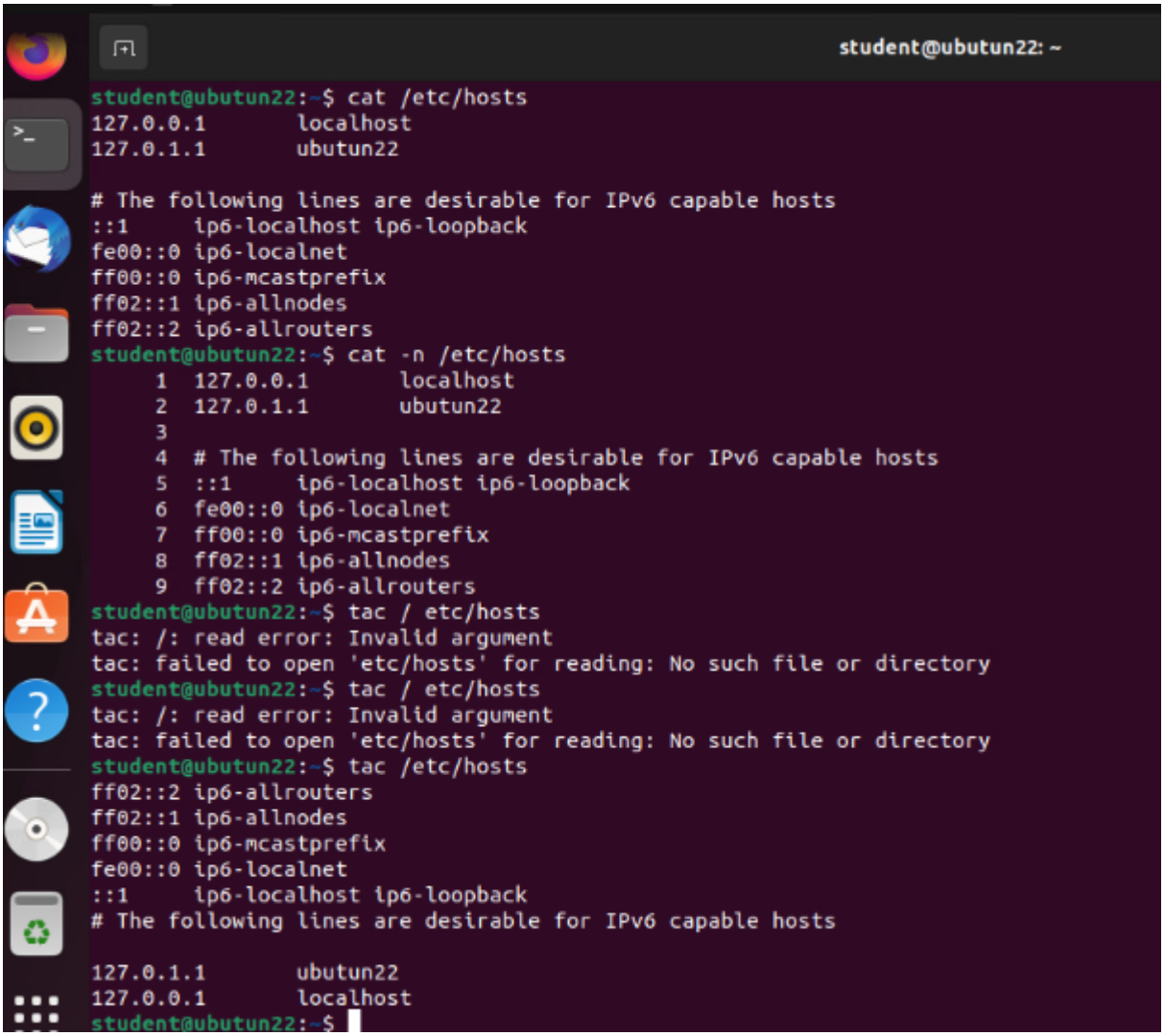
2. How many lines does the file have? 9 lines

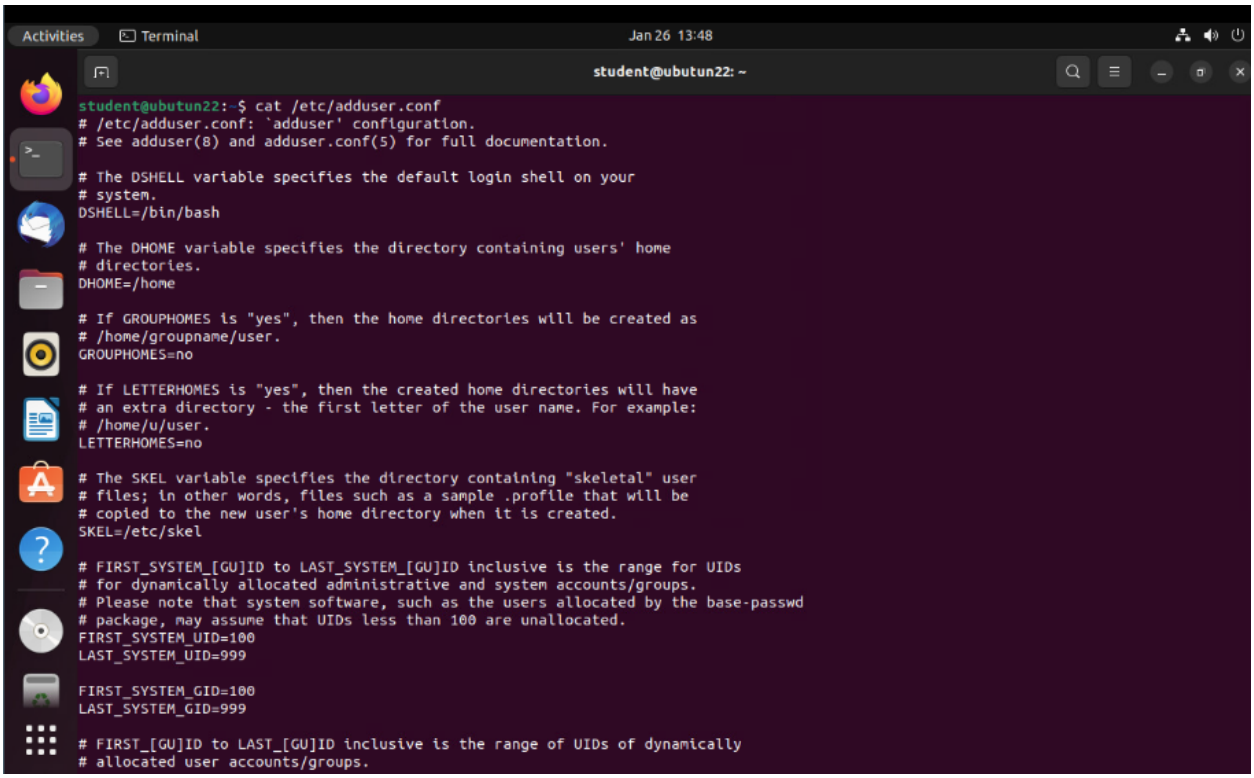
2A. Compare them. The first one is producing the line number in hexadecimal, while the cat -n command displays the line in number form. The tac command is the reverse command of the original cat command.



3. 

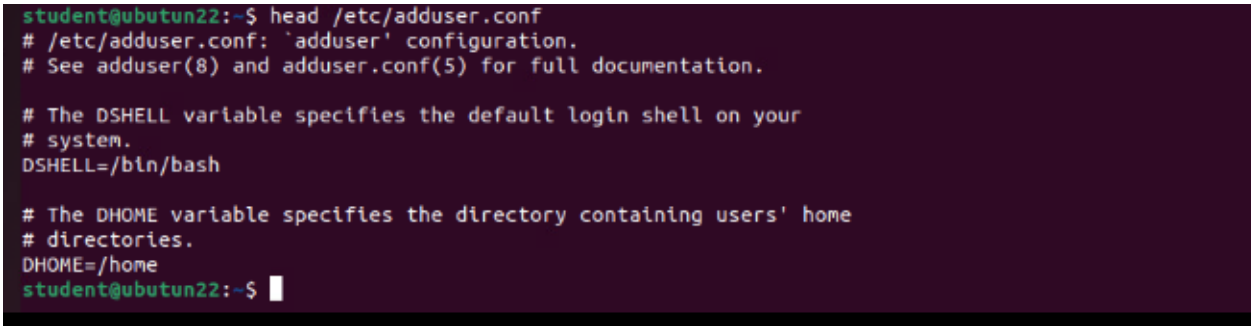

student@ubutun22: ~
student@ubutun22:~$ cat /etc/hosts
127.0.0.1 localhost
127.0.1.1 ubutun22
The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
student@ubutun22:~$ cat -n /etc/hosts
1 127.0.0.1 localhost
2 127.0.1.1 ubutun22
3
4 # The following lines are desirable for IPv6 capable hosts
5 ::1 ip6-localhost ip6-loopback
6 fe00::0 ip6-localnet
7 ff00::0 ip6-mcastprefix
8 ff02::1 ip6-allnodes
9 ff02::2 ip6-allrouters
student@ubutun22:~$ tac / etc/hosts
tac: /: read error: Invalid argument
tac: failed to open 'etc/hosts' for reading: No such file or directory
student@ubutun22:~$ tac / etc/hosts
tac: /: read error: Invalid argument
tac: failed to open 'etc/hosts' for reading: No such file or directory
student@ubutun22:~$ tac /etc/hosts
ff02::2 ip6-allrouters
ff02::1 ip6-allnodes
ff00::0 ip6-mcastprefix
fe00::0 ip6-localnet
::1 ip6-localhost ip6-loopback
The following lines are desirable for IPv6 capable hosts
127.0.1.1 ubutun22
127.0.0.1 localhost
student@ubutun22:~$

4.



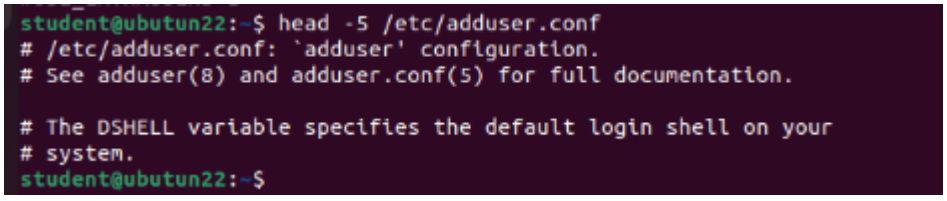
5. What is displayed on the screen? How many lines are displayed, which ones are they, and why?

The first 10 line of the adduser.conf file is shown.



6. How many lines are displayed and why?

The file is shown everything to the 5th line of the adduser.conf



How many lines are displayed and why?

3

```
student@ubutun22:~$ head -3 /etc/adduser.conf
# /etc/adduser.conf: `adduser' configuration.
# See adduser(8) and adduser.conf(5) for full documentation.

student@ubutun22:~$
```

7. What is displayed on the screen? How many lines are displayed; which ones are they and why?

The last 10 line of the adduser.conf file.

```
student@ubutun22:~$ tail /etc/addduser.conf
tail: cannot open '/etc/addduser.conf' for reading: No such file or directory
student@ubutun22:~$
```

8. How many lines are displayed and why?

There are 5 line of the last file of adduser.conf.

```
student@ubutun22:~$ tail -5 /etc/adduser.conf
# check user and group names also against this regular expression.
#NAME_REGEX="^[a-z][-a-z0-9_]*\$"

# use extrausers by default
#USE_EXTRAUSERS=1
student@ubutun22:~$
```

```
student@ubutun22:~$ cat -n /etc/adduser.conf
     1  # /etc/adduser.conf: `adduser' configuration.
     2  # See adduser(8) and adduser.conf(5) for full documentation.
     3
     4  # The DSHELL variable specifies the default login shell on your
     5  # system.
     6  DSHELL=/bin/bash
     7
     8  # The DHOME variable specifies the directory containing users' home
     9  # directories.
    10  DHOME=/home
    11
    12  # If GROUPHOMES is "yes", then the home directories will be created as
    13  # /home/groupname/user.
    14  GROUPHOMES=no
    15
    16  # If LETTERHOMES is "yes", then the created home directories will have
    17  # an extra directory - the first letter of the user name. For example:
    18  # /home/u/user.
    19  LETTERHOMES=no
    20
    21  # The SKEL variable specifies the directory containing "skeletal" user
    22  # files; in other words, files such as a sample .profile that will be
    23  # copied to the new user's home directory when it is created.
    24  SKEL=/etc/skel
    25
    26  # FIRST_SYSTEM_[GU]ID to LAST_SYSTEM_[GU]ID inclusive is the range for UIDs
    27  # for dynamically allocated administrative and system accounts/groups.
    28  # Please note that system software, such as the users allocated by the base-passwd
    29  # package, may assume that UIDs less than 100 are unallocated.
    30  FIRST_SYSTEM_UID=100
    31  LAST_SYSTEM_UID=999
    32
    33  FIRST_SYSTEM_GID=100
    34  LAST_SYSTEM_GID=999
    35
    36  # FIRST_[GU]ID to LAST_[GU]ID inclusive is the range of UIDs of dynamically
    37  # allocated user accounts/groups.
```