

**1. What is the difference between GUI and CLI?**

GUI (graphical user interface) allows interaction with the system using graphics, while CLI (character line interface) allows interaction with the system using commands

**2. List three types of shells**

sh, csh, and ksh

**3. What is the command to list all the commands you have previously typed?**

history

**4. How can we quickly access the last command typed?**

Up arrow key

**5. What are the three modes of the Vim editor?**

Command, insert, and last line

**6. Display your current directory.**

pwd

**7. Change to the /etc directory.**

cd /etc

**8. Change to your home directory using only three keystrokes.**

cd  
(enter key)

**9. Change to the /boot/grub directory using only eleven or less keystrokes (how would you do it?)**

cd /bo  
(tab key)  
G  
(tab key)  
(enter key)

**10. Go to the parent directory of the current directory.**

cd ..

**11. In which directory are you located? (from now this will be your current directory, you shouldn't change from this directory. You can use absolute or relative paths)**

/boot

**12. List a 'long listing' of the /etc directory.**

ls -l /etc

**13. List all the files (including hidden files) in your home directory.**

ls -a ~

**14. List the files (including hidden files) in /boot in a human readable format and sorted by size.**

ls -lhS /boot

**15. Create a directory newdir in your home directory.**

mkdir ~/newdir

**16. Using mkdir only one time (in your home directory) create the directories dir1/dir2/dir3 (dir3 is a subdirectory of dir2, and dir2 is a subdirectory of dir1)**

mkdir -p ~/dir1/dir2/dir3

**17. Copy the dir1 directory and its content to newdir**

cp -r ~/dir1 ~/newdir

**18. Using the touch command only one time, create the files file1.txt, file2.txt and file3.txt inside newdir**

```
touch ~/newdir/file1.txt ~/newdir/file2.txt ~/newdir/file3.txt
```

**19. Use the echo command to create a weekend.txt file inside newdir with Saturday and Sunday words, each word in one line.**

```
echo $'Saturday\nSunday' > ~/newdir/weekend.txt
```

**20. Move the weekend.txt from newdir to your home directory.**

```
mv ~/newdir/weekend.txt ~
```

**21. Using the vim editor, add the weekdays and your pawprint into the weekend.txt file (the file should have 8 lines: Monday, Tuesday,...,Sunday, pawprint)**

```
vi ~/weekend.txt
(i key)
(add weekdays and pawprint)
(escape key)
(colon key)
wq
(enter key)
```

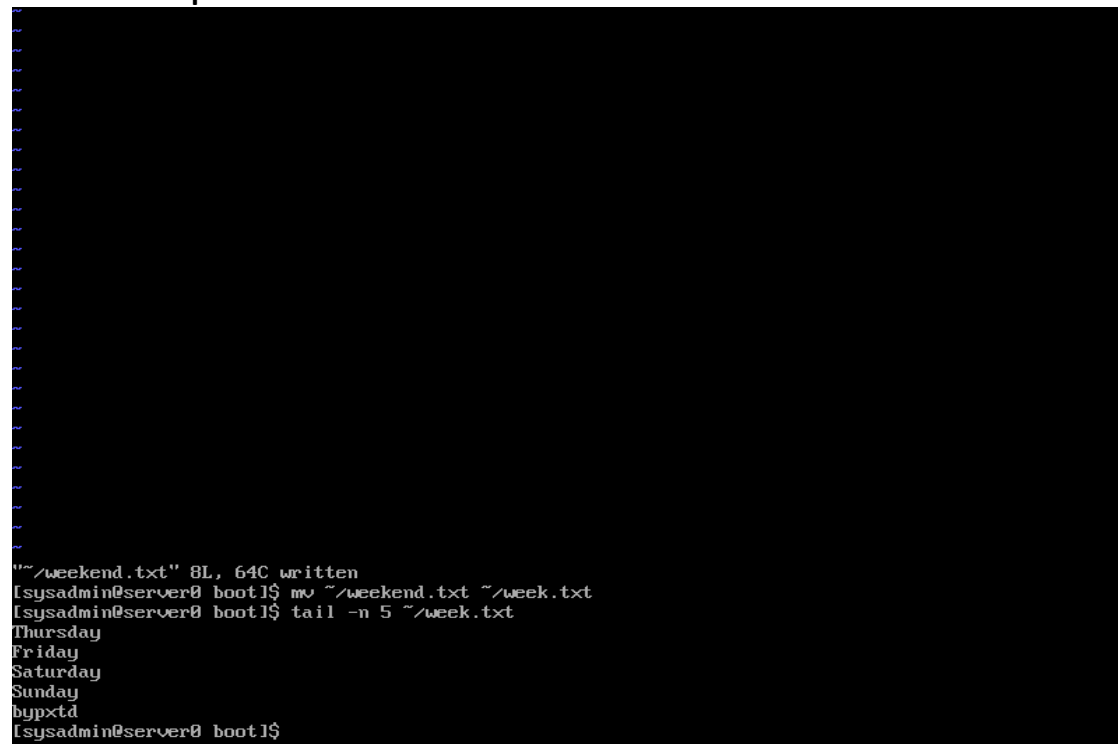
**22. Rename the weekend.txt file name to week.txt**

```
mv ~/weekend.txt ~/week.txt
```

**23. Display the last 5 lines of the week.txt file with tail command**

```
tail -n 5 ~/week.txt
```

**24. Take a screenshot of the output (where your pawprint is visible) and paste it to your homework report**



```
~/weekend.txt" 8L, 64C written
[sysadmin@server0 boot]$ mv ~/weekend.txt ~/week.txt
[sysadmin@server0 boot]$ tail -n 5 ~/week.txt
Thursday
Friday
Saturday
Sunday
bypxtd
[sysadmin@server0 boot]$
```

**25. Remove the newdir and dir1 directories using rm command only one time**

```
rm -r ~/newdir ~/dir1
```