

Assignment – 1

Q1. Design a date command with options such that the output is

Today's date : dd/mm/yyyy

Current time : hh:mm:ss

```
root@Dream:~/24BCSH93# echo "Today's date: $(date +%d/%m/%Y)"
```

Today's date: 18/08/2025

```
root@Dream:~/24BCSH93# echo "Current time: $(date +%T)"
```

Current time: 17:25:12

Q2. Design a cal command with options to print the calendar of a specific month of a specific year.

```
root@Dream:~/24BCSH93# cal 08 2025
```

August 2025

Su Mo Tu We Th Fr Sa

1 2

3 4 5 6 7 8 9

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 30

31

Q3. Use touch command to create a file with date and time different from current date and time.

```
root@Dream:~/24BCSH93# touch -t 2506131536 file.txt
```

```
root@Dream:~/24BCSH93# ls -l
```

total 0

-rw-r--r-- 1 root root 0 Jun 13 15:36 file.txt

Q4. Use who command to find out number of users (user count) logged in.

```
root@Dream:~/24BCSH93# who -q
```

root

users=1

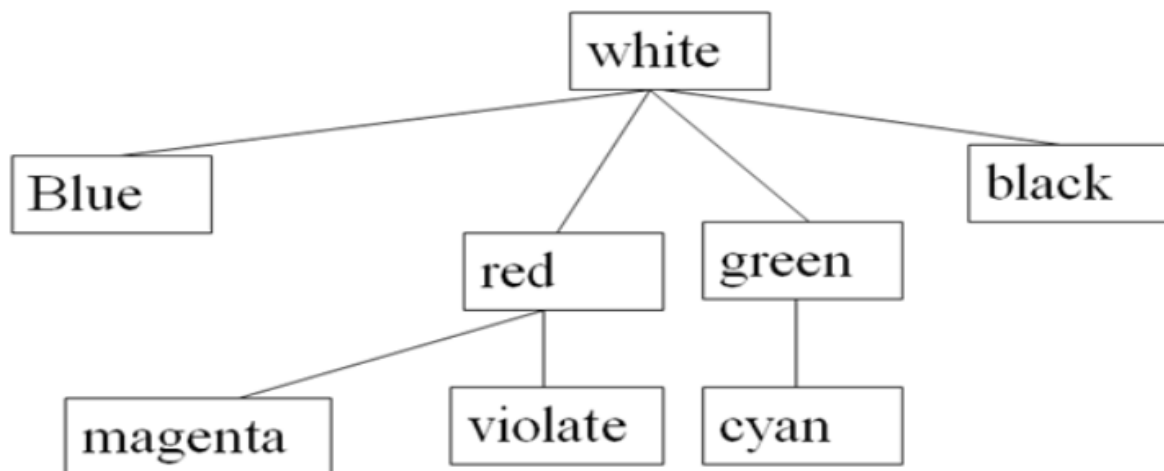
Q5. Use ls command to sort the list according to

- a. file name (descending) and display with their inode numbers.
 - b. size of file(ascending) and display names in one column.
- a. root@Dream:~/24BCSH93# ls -i -r

127 file.txt

- b. root@Dream:~/24BCSH93# ls -S -r
- file.txt

Q6. Create a directory structure as given below.



```
root@Dream:~/24BCSH93# mkdir white white/blue white/red white/green white/black  
white/red/magenta white/red/violet white/green/cyan
```

Q7. Change directory from white to violet.

```
root@Dream:~/24BCSH93# cd white
```

```
root@Dream:~/24BCSH93/white# cd red/violet
```

Q8. Change directory from violet to blue.

```
root@Dream:~/24BCSH93/white/red/violet# cd ../../blue
```

Q9. Change directory from blue to black.

```
root@Dream:~/24BCSH93/white/blue# cd ../black
```

Q10. Change directory from black to cyan.

```
root@Dream:~/24BCSH93/white/black# cd ../green/cyan
```

Q11. Create one file under blue and copy it into magenta directory.

```
root@Dream:~/24BCSH93/white/green/cyan# touch ../../blue/file.txt
```

```
root@Dream:~/24BCSH93/white/green/cyan# ls ../../blue
```

```
file.txt
```

```
root@Dream:~/24BCSH93/white/green/cyan# cp ../../blue/file.txt ../../red/magenta
```

```
root@Dream:~/24BCSH93/white/green/cyan# ls ../../red/magenta
```

```
file.txt
```

Q12. Move the file under magenta to black.

```
root@Dream:~/24BCSH93/white/green/cyan# mv ../../red/magenta/file.txt ../../black
```

```
root@Dream:~/24BCSH93/white/green/cyan# ls ../../black
```

```
file.txt
```

Q13. Move entire black directory to blue.

```
root@Dream:~/24BCSH93/white/green/cyan# mv ../../black ../../blue
```

```
root@Dream:~/24BCSH93/white/green/cyan# ls ../../blue
```

```
black file.txt
```

Q14. Delete the file under blue.

```
root@Dream:~/24BCSH93/white/green/cyan# rm ../../blue/file.txt
```

```
root@Dream:~/24BCSH93/white/green/cyan# ls ../../blue
```

```
black
```

Q15. Delete the directory cyan.

```
root@Dream:~/24BCSH93/white/green/cyan# cd ..
```

```
root@Dream:~/24BCSH93/white/green# rm -r cyan
```

Q16. Delete the directory red.

```
root@Dream:~/24BCSH93/white/green# rm -r ../red
```

```
root@Dream:~/24BCSH93/white/green# ls -r ../
```

```
blue green
```

Q17. Copy entire black directory under green.

```
root@Dream:~/24BCSH93/white/green# cp -r ../blue/black/ .
```

```
root@Dream:~/24BCSH93/white/green# ls
```

```
black
```

Q18. Delete the directory black under blue.

```
root@Dream:~/24BCSH93/white/green# rm -r ../blue/black
```