Sf (1 - 23)

1. top 10 processes in descending order

```
ps aux --sort=-%cpu | head -n 11
```

2. processes with highest memory usage.

```
ps aux --sort=-%mem | head -n 11
```

3. current logged in user and logname.

```
echo "Current user: $USER"
echo "Login name: $LOGNAME"
```

4. current shell, home directory, operating system type, current path setting, current working directory.

```
echo "Current shell: $SHELL"
echo "Home directory: $HOME"
echo "Operating system type: $(uname -o)"
echo "Current path setting: $PATH"
echo "Current working directory: $PWD"
```

5. OS version, release number, kernel version.

6. Write a command to the first 15 columns from each line in the file

```
cut -c 1-15  1.txt
```

7. cut specified columns from a file and them

```
cut -c 1-5 1.txt
```

8. Sort given file ignoring upper and lower case

```
sort -f 1.txt
```

9. s only directories in the current working directory.

```
ls -d */
```

10. copying files from one place to another,

```
cp 1.txt  /Users/ruhidoshi/Desktop/study\ material\ /SF
```

11.moving files from one place to another.

```
mv 1.txt /Users/ruhidoshi/Desktop/study\ material\ /SF
```

12. Removing specific directory with various options

```
1    rmdir  directory name
2    mkdir  directory name
```

13.list the numbers of users currently login in the system and then sort it.

```
  who | cut -d' ' -f1 | sort
```

14.Merge two files into one file

```
// creating a file in the terminal
echo -e "Vivan efficltricies nisi metus in est.\n" > file2.txt

cat file1.txt file2.txt > merged_file.txt
```

15. changes the access mode of one file

```
chmod 755 file1.txt
```

16. the last ten lines of the file.

```
tail -n 10 file2.txt
```

17.to locate files in a directory and in a subdirectory.

```
find /path/to/directory -type f
```

18.This displays the contents of all files having a name starting with ap followed by any number of characters.

```
cat ap*
cat ap* AP* ./*ap*
```

19. Rename any file aaa to aaa.aa1, where aa1 is the user login name

```
mv aaa.txt aaa.$(whoami)
```

20. Write a command to search the word ‘picture’ in the file and if found, the lines containing it would be displayed on the screen.

```
grep 'picture' 11.txt
```

21. Write a command to search for all occurrences of ‘Rebecca’ as well as ‘rebecca’ in file and display the lines which contain one of these words.

```
grep -i 'Rebecca' 11.txt
```

22. Write a command to search all four-letter words whose first letter is a ‘b’ and last letter, a ‘k’.

```
grep -w 'b..k' 11.txt
```

23. Write a command to see only those lines which do not contain the search patterns

```
grep -v ‘pattern’ 11.txt
```