- 1. head:
- It is used to display the top 10 lines of the file

Syntax: head [options] [filename]

- > Examples:
- head /etc/passwd
- ➤ To display the custom lines

head -n /etc/passwd (where n can be any number)

### Filter commands

- 2. tail:
- It is used to display the last 10 lines of the file

Syntax: tail [options] [filename]

- Examples:
- ➤ tail /etc/passwd
- To display the custom lines

tail -n /etc/passwd (where n can be any number)

- 3. sort:
- ➤ It is used to sort the output in numeric or alphabetic order

Syntax: sort [options] <filename>

### Filter commands

Example2: To see the file according to numbers

- ➤ cat > test1
- > 3. Linux is freedom
- ➤ 1. Hello world
- 2. Welcome to my world
- press enter
- ctrl + d(save the file)

Example3: To remdve the duplicate entries from the output

- ➤ cat > test2
- Linux is freedom
- Linux is freedom
- press enter
- ctrl + d(save the file)

# Filter commands

sort - ju test2

➤ Linux is freedom

- 4. cut:
- The cut command in UNIX is a command for cutting out the sections from each line of lines and writing the result to standard output
- It can be used to cut parts of a line by byte position, character and field

syntax: cut [options] <filename>

### Filter commands

Example1:-b(byte) is used to extract the specific bytes

cat > state.txt

- Telangana state
- Andhra pradesh
- Assam
- Bihar

# Filter commands cut b 1,2,3 state.txt Tel And Ass Bih

# Filter commands

Example2: To delimit spaces and print the field

syntax: cut -d "delimiter" -f <field number> <filename>

➤ cut -d " " -f 1 state.txt

## 5. sed:

sed stands for stream editor which is used to search a word in the file and replace it with the word required to be in the output

syntax: sed 's/searchfor/replacewith/g' <filename>

# Filter commands

# Example1:

cat > geekfile.txt

- unix is great os
- unix is open source
- unix is free os
- press enter
- ctrl + d(save the file)

# Filter commands sed 's/unix/linux/g' geekfile.txt > output: > linux is great os > linux is open source > linux is free os

- 1. Permissions are applied on three levels
- Owner or User level
- Group level
- Others level
- 2. Access modes are of three types
- r read only
- w write/edit/delete/append
- x execute/run a command

# File permissions

- 2. Absolute method(numbers):
- In Absolute method we use numbers instead of using symbols ie.,
- Read = 4
- Write = 2
- Execute = 1

- Permissions can be set on any file or directory by two methods:
- Symbolic method(ugo)
- Absolute method(numbers)

# File permissions

- Symbolic method(ugo):
- Here u means user/owner
- Here g means group
- Here o means others

Example1: Assigning different permissions to the file ie., user=rwx, group =rw and others =r

- ls -l <filename>
- chmod u=rwx,g=rw,o=r <filename>
- Is -I <filename>

# File permissions

Example2: Assigning full permissions to the file ie., rwx to all

- ➤ Is -I <filename>
- chmod ugo=rwx <filename>
- Is -I <filename>

Example3: setting full permissions to other users

- ➤ Is -I <filename>
- chmod o=rwx <filename>
- ➤ Is -I <filename>

# File permissions

Example4: Adding 'execute' permissions to the user group

- Is -I <filename>
- ➤ chmod g+x <filename>
- ➤ Is -I <filename>

Example 5: Removing 'read' permission for user

- ➤ Is -I <filename>
- chmod u-r <filename>
- ➤ Is -I <filename>