Use grep 'text_you_want_to search' filename.

Usually grep is case sensitive so use grep -i 'text' filename.

```
user@user-virtual-machine:~$ grep -i "a" add.txt
void main()
int a,b,sum;
scanf("%d%d",&a&b);
sum = a + b;
user@user-virtual-machine: $ grep -i "a" add.txt f1
add.txt:void main()
add.txt:int a,b,sum;
add.txt:scanf("%d%d",&a&b);
add.txt:sum = a + b;
grep: f1: No such file or directory
user@user-virtual-machine:~$ grep -i "a" add.txt test_me.txt
add.txt:void main()
add.txt:int a,b,sum;
add.txt:scanf("%d%d",&a&b);
add.txt:sum = 🐞 + b;
test_me.txt:hello again
test me.txt:hello again
```

```
Use <a href="mailto:grep-c">grep -c 'text_u_want_to_search' filename</a> for giving u the <a href="mailto:count-of-the-text">count of the text in the file</a>.

user@user-virtual-machine: $\text{grep} -c \"a" \add.txt

4
```

If use * in grep command in place of filename it will display the number of text repeated in all files including filenames.

```
user@user-virtual-machine:~$ grep -c 'a' *
add.txt:4
grep: Desktop: Is a directory
Desktop:0
grep: Documents: Is a directory
Documents:0
grep: Downloads: Is a directory
Downloads:0
file1:2
file1~:0
file1.txt:0
file2:1
filename1:1
grep: m1: Is a directory
m1:0
grep: Music: Is a directory
Music:0
grep: Pictures: Is a directory
Pictures:0
grep: Public: Is a directory
Public:0
grep: s1: Is a directory
51 0
table.txt:3
```

```
grep: s1: Is a directory
s1:0
table.txt:3
grep: Templates: Is a directory
Templates:0
test_me.txt:2
grep: Videos: Is a directory
Videos:0
```

Use grep -I -n 'text' filename to display the I ine number which include the text in that file.

```
user@user-virtual-machine:~$ grep -i -n 'a' add.txt
2:void main()
4:int a,b,sum;
6:scanf("%d%d",&a&b);
7:sum = a + b;
User@user-virtual-machine:~$
```

Use grep -i -v 'text' filename to display the line which does not contain text in file.

```
user@user-virtual-machine:~$ grep -iv 'a' add.txt
#include<stdio.>
{
printf("Enter the Numbers:");
printf("Sum of Numbers:%d",&sum);
}
user@user-virtual-machine:~$ cat add.txt
#include<stdio.>
void main()
{
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
printf("Sum of Numbers:%d",&sum);
}
user@user-virtual-machine:~$
```

Use grep -i -o 'text' filename to only display the text not the whole line.

```
user@user-virtual-machine:~$ grep -io 'a' add.txt

a
a
a
```

Use grep -I '^text' filename it display all the lines which starts with text in the filename.

```
user@user-virtual-machine:~$ grep -i '^Linux' filename
Linux is one of the most prominent examples of free and open-source software co
llaboration. The source code may be used, modified and distributed commercially
or non-commercially by anyone under the terms of its respective licenses, such
as the GNU General Public License.[20]
```

Use grep -I 'text\$' filename to display all the lines which ends with text in the filename.

```
user@user-virtual-machine: - $ cat filename
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typically
 built into the firmware and is highly tailored to the system. This includes ro
uters, automation controls, smart home technology (like Google Nest),[33] telev
isions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),[34][35][36
] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota all
rely on Linux),[37] digital video recorders, video game consoles, and smartwat
ches.[38] The Falcon 9's and the Dragon 2's avionics use a customized version o
f Linux.[39]
Linux is one of the most prominent examples of free and open-source software co
llaboration. The source code may be used, modified and distributed commercially
 or non-commercially by anyone under the terms of its respective licenses, such
 as the GNU General Public License.[20]
90% of all cloud infrastructure is powered by Linux including supercomputers an
d cloud providers.[40] 74% of smartphones in the world are Linux-based.[41]
Just trying grep
test testing
Powered by incliding
user@user-virtual-machine: $ grep -i 'License$' filename
user@user-virtual-machine: $ grep -i 'testing$' filename
test
```

Use grep -i -A5 'Linux' filename it take last line which contains 'Linux' and display 5 lines below that 'Linux' text.

```
user@user-virtual-machine:-$ grep -i -A2 'Linux' filename
Linux also runs on embedded systems, i.e. devices whose operating system is typ
ically built into the firmware and is highly tailored to the system. This inclu
des routers, automation controls, smart home technology (like Google Nest),[33]
  televisions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),[34][
35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyo
ta all rely on Linux),[37] digital video recorders, video game consoles, and sm
artwatches.[38] The Falcon 9's and the Dragon 2's avionics use a customized ver
sion of Linux.[39]
```

Linux is one of the most prominent examples of free and open-source software co llaboration. The source code may be used, modified and distributed commercially or non-commercially by anyone under the terms of its respective licenses, such as the GNU General Public License.[20]

90% of all cloud infrastructure is powered by Linux including supercomputers an d cloud providers.[40] 74% of smartphones in the world are Linux-based.[41] Just trying grep test testing

Use **grep -i -C5 'Linux' filename** it takes first line that contains "Linux' and display **5 line above similarly** it will take last line which contain 'linux' text and display **5**

```
user@user-virtual-machine:~$ grep -i -C2 'Linux' filename
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typically built into the firmware and is highly tailored to the system. This includes ro uters, automation controls, smart home technology (like Google Nest),[33] telev isions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota all rely on Linux),[37] digital video recorders, video game consoles, and smartwat ches.[38] The Falcon 9's and the Dragon 2's avionics use a customized version of Linux.[39]
Linux is one of the most prominent examples of free and open-source software co
```

Linux is one of the most prominent examples of free and open-source software co llaboration. The source code may be used, modified and distributed commercially or non-commercially by anyone under the terms of its respective licenses, such as the GNU General Public License.[20]

90% of all cloud infrastructure is powered by Linux including supercomputers an d cloud providers.[40] 74% of smartphones in the world are Linux-based.[41] Just trying grep test testing

Use grep -i -B5 'Linux' filename it takes first line which contains 'linux' and display 5 line above the text Linux in the filename.

```
user@user-virtual-machine:~$ grep -i -B2 'Linux' filename
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typically built into the firmware and is highly tailored to the system. This includes ro uters, automation controls, smart home technology (like Google Nest),[33] telev isions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota all rely on Linux),[37] digital video recorders, video game consoles, and smartwat ches.[38] The Falcon 9's and the Dragon 2's avionics use a customized version of Linux.[39]
```

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90% of all cloud infrastructure is powered by Linux including supercomputers an d cloud providers.[40] 74% of smartphones in the world are Linux-based.[41]

Use cat filename | tr '[a-z]' '[A-Z]', this commands say display a file while replacing all lower case to upper case alphabets, cat filename | tr '[:upper:]' '[:lower:]', we use | for adding extra command and tr stand for translate. So all the lower case alphabets will display in capital letter

```
user@user-virtual-machine:~$ cat filename | tr '[a-z]' '[A-Z]'
IS HIGHLY TAILORED TO THE SYSTEM
I.E DEVICES WHOSE OS
ALSO RUNS ON EMBEDDED SYSTEMS, I.E. DEVICES WHOSE OPERATING SYSTEM IS TYPIC
BUILT INTO THE FIRMWARE AND IS HIGHLY TAILORED TO THE SYSTEM. THIS INCLUDE
UTERS, AUTOMATION CONTROLS, SMART HOME TECHNOLOGY (LIKE GOOGLE NEST),[33] T
ISIONS (SAMSUNG AND LG SMART TVS USE TIZEN AND WEBOS, RESPECTIVELY),[34][35
] AUTOMOBILES (FOR EXAMPLE, TESLA, AUDI, MERCEDES-BENZ, HYUNDAI, AND TOYOTA
RELY ON LINUX),[37] DIGITAL VIDEO RECORDERS, VIDEO GAME CONSOLES, AND SMAR
CHES.THE FALCON 9'S AND THE DRAGON 2'S AVIONICS USE A CUSTOMIZED VERSION OF
UX.
LINUX IS ONE OF THE MOST PROMINENT EXAMPLES OF FREE AND OPEN-SOURCE SOFTWAR
LLABORATION. THE SOURCE CODE MAY BE USED, MODIFIED AND DISTRIBUTED COMMERCI
OR NON-COMMERCIALLY BY ANYONE UNDER THE TERMS OF ITS RESPECTIVE LICENSES,
AS THE GNU GENERAL PUBLIC LICENSE.
90% OF ALL CLOUD INFRASTRUCTURE IS POWERED BY LINUX INCLUDING SUPERCOMPUTER
D CLOUD PROVIDERS 74% OF SMARTPHONES IN THE WORLD ARE LINUX.
JUST TRYING GREP
TEST TESTING
POWERED BY INCLIDING
```

Use echo "Hello World" | tr '[:space:]' '\t' to replace the every space between Hello World to a tab.

```
user@user-virtual-machine:~$ echo 'Hello
>
>
> WOrld' | tr '[:space:]' '\t'
Hello WOrld user@user-virtual-machine:~$
```

Use cat filename [tr '[]' '{}', to translate [] to {} in the file.

```
user@user-virtual-machine:~$ cat filename | tr '[]' '{}'
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typic built into the firmware and is highly tailored to the system. This include uters, automation controls, smart home technology (like Google Nest).{33} t isions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),{34}{35} automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota rely on Linux),{37} digital video recorders, video game consoles, and smar ches.The Falcon 9's and the Dragon 2's avionics use a customized version of ux.
```

Use cat filename | tr 'L' 't', to replace all the L in file to t.

user@user-virtual-machine:~\$ cat filename | tr 'L' 't'
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typic built into the firmware and is highly tailored to the system. This include uters, automation controls, smart home technology (like Google Nest),[33] t isions (Samsung and tG Smart TVs use Tizen and WebOS, respectively),[34][35] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota rely on tinux),[37] digital video recorders, video game consoles, and smar ches.The Falcon 9's and the Dragon 2's avionics use a customized version of ux.

tinux is one of the most prominent examples of free and open-source softwar llaboration. The source code may be used, modified and distributed commerci or non-commercially by anyone under the terms of its respective licenses, as the GNU General Public ticense.

90% of all cloud infrastructure is powered by tinux including supercomputer d cloud providers 74% of smartphones in the world are tinux.

Use cat filename | tr 'LOo' 'OpP' tr deals with character by character first L will be

user@user-virtual-machine: \$ cat filename | tr 'LOo' 'OpP' IS highly tailPred tP the system

I.e devices whPse Ps

AlsP runs Pn embedded systems, i.e. devices whPse Pperating system is typic built intP the firmware and is highly tailPred tP the system. This include uters, autPmatiPn cPntrPls, smart hPme technPlPgy (like GPPgle Nest),[33] t isiPns (Samsung and OG Smart TVs use Tizen and WebpS, respectively),[34][35] autPmPbiles (fPr example, Tesla, Audi, Mercedes-Benz, Hyundai, and TPyPta rely Pn Oinux),[37] digital videP recPrders, videP game cPnsPles, and smar ches.The FalcPn 9's and the DragPn 2's aviPnics use a custPmized versiPn Pf ux.

Oinux is Pne Pf the mPst prPminent examples Pf free and Ppen-sPurce sPftwar llabPratiPn. The sPurce cPde may be used, mPdified and distributed cPmmerci Pr nPn-cPmmercially by anyPne under the terms Pf its respective licenses, as the GNU General Public Oicense.

Use cat filename | tr -d 'Linux' d for delete it deleted Linux in filename.

```
user@user-virtual-machine: $ cat filename | tr -d 'I'
S highly tailored to the system
.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is typic
 built into the firmware and is highly tailored to the system. This include
uters, automation controls, smart home technology (like Google Nest),[33] t
isions (Samsung and LG Smart TVs use Tizen and WebOS, respectively),[34][35
] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota
rely on Linux),[37] digital video recorders, video game consoles, and smar
ches.The Falcon 9's and the Dragon 2's avionics use a customized version of
ux.
Linux is one of the most prominent examples of free and open-source softwar
llaboration. The source code may be used, modified and distributed commerci
 or non-commercially by anyone under the terms of its respective licenses,
 as the GNU General Public License.
90% of all cloud infrastructure is powered by Linux including supercomputer
d cloud providers 74% of smartphones in the world are Linux.
Use cat filename | tr'-d'[:digits:]' | tr-d'[:upper:]' deleted digits and upper case alphabet from filename.
user@user-virtual-machine: $ cat filename | tr -d '[:digit:]' | tr -d '[:upper
:1"
 highly tailored to the system
.e devices whose os
lso runs on embedded systems, i.e. devices whose operating system is typically
built into the firmware and is highly tailored to the system. his includes rout
ers, automation controls, smart home technology (like oogle est) [[] televisions
(amsung and mart s use izen and eb, respectively),[][][] automobiles (for exa
mple, esla, udi, ercedes-enz, yundai, and oyota all rely on inux),[] digital vi
deo recorders, video game consoles, and smartwatches.he alcon 's and the ragon
's avionics use a customized version of inux.
inux is one of the most prominent examples of free and open-source software col
laboration. he source code may be used, modified and distributed commercially o
r non-commercially by anyone under the terms of its respective licenses, such a
s the eneral ublic icense.
% of all cloud infrastructure is powered by inux including supercomputers and c
loud providers % of smartphones in the world are inux.
ust trying grep
test testing
```

Use cat filename | tr -s '[:space:]' to delete space between lines

owered by incliding

user@user-virtual-machine:~\$

```
user@user-virtual-machine: $ cat add.txt
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
printf("Sum of Numbers:%d",&sum);
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
printf("Sum of Numbers:%d",&sum);
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
user@user-virtual-machine: $ cat add.txt | tr -s '[:space:]'
                                                                  #in
#include<stdio.>
void main()
                                                                  voi
                                                                  {
                                                                  int
int a,b,sum;
printf("Enter the Numbers:");
                                                                  pri
scanf("%d%d",&a&b);
                                                                  sca
sum = a + b;
                                                                  SUF
printf("Sum of Numbers:%d",&sum);
                                                                  pri
                                                                  1
#include<stdio.>
                                                                  #in
void main()
                                                                  voi
int a,b,sum;
                                                                  int
printf("Enter the Numbers:");
                                                                  pri
scanf("%d%d",&a&b);
                                                                  SCa
sum = a + b;
                                                                  SUF
printf("Sum of Numbers:%d",&sum);
                                                                  pri
#include<stdio.>
                                                                  #in
void main()
                                                                  voi
```

Use more filename to w ill load initially some % of file if data in file is huge, in this case hit space to load next 25%.

I.e devices whose os Also runs on embedded systems, i.e. devices whose operating system is typically built into the firmware and is highly tailored to the system. This includes routers, automation controls, smart home technology (like Google Nest),[33] televisions (Samsung and LG Smart TVs use Tizen and WebOS, respectiv ely),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz, Hyunda , and Toyota all rely on Linux),[37] digital video recorders, video game consol es, and smartwatches. The Falcon 9's and the Dragon 2's avionics use a customized version of Linux. Linux is one of the most prominent examples of free and open-source software co llaboration. The source code may be used, modified and distributed commercially or non-commercially by anyone under the terms of its respective licenses, such as the GNU General Public License. 90% of all cloud infrastructure is powered by Linux including supercomputers an d cloud providers 74% of smartphones in the world are Linux. Just trying grep test testing Powered by incliding Memory management: Another function that kernel has to manage is the memory man agement. The kernel keeps track of used and unused memory and makes sure that processes shouldn't manipulate data of each other using virtual memory addresses. Process management: In the process, management kernel assigns enough time and o

It also deals with security and ownership information.
Handling system calls: Handling system calls means a programmer can write a que
ry or ask the kernel to perform a task.

--More--(71%)

IS highly tailored to the system

Use more -d filename to get ore description/control option on the end of screen; d --> description

ives priorities to processes before handling CPU to other processes.

```
IS highly tailored to the system
I.e devices whose os
Also runs on embedded systems, i.e. devices whose operating system is
built into the firmware and is highly tailored to the system.
This includes routers, automation controls, smart home technology (lik
Nest),[33] televisions (Samsung and LG Smart TVs use Tizen and WebOS,
ely),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz
, and Toyota all rely on Linux),[37] digital video recorders, video ga
es, and smartwatches.
The Falcon 9's and the Dragon 2's avionics use a customized version of
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llaboration. The source code may be used, modified and distributed com
or non-commercially by anyone under the terms of its respective licen
as the GNU General Public License.
90% of all cloud infrastructure is powered by Linux including supercom
d cloud providers 74% of smartphones in the world are Linux.
Just trying grep
test testing
Powered by incliding
Memory management: Another function that kernel has to manage is the m
agement.
The kernel keeps track of used and unused memory and makes sure that p
shouldn't manipulate data of each other using virtual memory addresses
Process management: In the process, management kernel assigns enough t
ives priorities to processes before handling CPU to other processes.
It also deals with security and ownership information.
Handling system calls: Handling system calls means a programmer can wr
ry or ask the kernel to perform a task.
--More--(71%)[Press space to continue, 'q' to quit.]
```

Use more -f filename to it prevent from dividing the word if screen size is low.

user@user-virtual-machine:-\$ more -f filename

IS highly tailored to the system

I.e devices whose os

Also runs on embedded systems, i.e. devices whose operating system is built into the firmware and is highly tailored to the system.

This includes routers, automation controls, smart home technology (lik Nest),[33] televisions (Samsung and LG Smart TVs use Tizen and WebOS, ely),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz, and Toyota all rely on Linux),[37] digital video recorders, video ga onsoles, and smartwatches.

The Falcon 9's and the Dragon 2's avionics use a customized version of Linux is one of the most prominent examples of free and open-source so llaboration. The source code may be used, modified and distributed com or non-commercially by anyone under the terms of its respective licen as the GNU General Public License.

90% of all cloud infrastructure is powered by Linux including supercom d cloud providers 74% of smartphones in the world are Linux.

Just trying grep

test testing

Powered by incliding

Memory management: Another function that kernel has to manage is the magement.

The kernel keeps track of used and unused memory and makes sure that p shouldn't manipulate data of each other using virtual memory addresses Process management: In the process, management kernel assigns enough t ives priorities to processes before handling CPU to other processes. It also deals with security and ownership information.

Handling system calls: Handling system calls means a programmer can wr ry or ask the kernel to perform a task.

Use more -c filename it overrides whole terminal so until one press space key we can't use terminal for other

commands.

IS highly tailored to the system 1.e devices whose os Also runs on embedded systems, i.e. devices whose operating system is built into the firmware and is highly tailored to the system. This includes routers, automation controls, smart home technology (lik Nest),[33] televisions (Samsung and LG Smart TVs use Tizen and WebOS, ely),[34][35][36] automobiles (for example, Tesla, Audi, Mercedes-Benz , and Toyota all rely on Linux),[37] digital video recorders, video ga es, and smartwatches. The Falcon 9's and the Dragon 2's avionics use a customized version of Linux is one of the most prominent examples of free and open-source so llaboration. The source code may be used, modified and distributed com or non-commercially by anyone under the terms of its respective licen as the GNU General Public License. 90% of all cloud infrastructure is powered by Linux including supercom d cloud providers 74% of smartphones in the world are Linux. Just trying grep test testing Powered by incliding Memory management: Another function that kernel has to manage is the m The kernel keeps track of used and unused memory and makes sure that p shouldn't manipulate data of each other using virtual memory addresses Process management: In the process, management kernel assigns en ives priorities to processes before handling CPU to other proces ▲ Bac It also deals with security and ownership information. If the so Handling system calls: Handling system calls means a programmer connect ry or ask the kernel to perform a task. --More--(71%)

Use less filename to same as more command but better control system than more command.

Linux is one of the most prominent examples of free and open-source so llaboration. The source code may be used, modified and distributed com or non-commercially by anyone under the terms of its respective licen as the GNU General Public License. 90% of all cloud infrastructure is powered by Linux including supercom d cloud providers 74% of smartphones in the world are Linux. Just trying grep test testing Powered by incliding Memory management: Another function that kernel has to manage is the m The kernel keeps track of used and unused memory and makes sure that p shouldn't manipulate data of each other using virtual memory addresses Process management: In the process, management kernel assigns enough t ives priorities to processes before handling CPU to other processes. It also deals with security and ownership information. Handling system calls: Handling system calls means a programmer can wr ry or ask the kernel to perform a task. Also runs on embedded systems, i.e. devices whose operating system is built into the firmware and is highly tailored to the system. This includes routers, automation controls, smart home technology (for example, Tesla, Audi, Mercedes-Benz, Hyundai, and Toyota all rely),[37] digital video recorders, video game consoles, and smartwatches. The kernel keeps track of used and unused memory and makes sure that p shouldn't manipulate data of each other using virtual memory addresses Process management: In the process, management kernel assigns enough t ives priorities to processes before handling CPU to other processes. (END)

The Falcon 9's and the Dragon 2's avionics use a customized version of

Use head filename to display top 10 line from file

```
user@user-virtual-machine:~$ head add.txt
#include<stdio.>
void main()
{
  int a,b,sum;
  printf("Enter the Numbers:");
  scanf("%d%d",&a&b);
  sum = a + b;
  printf("Sum of Numbers:%d",&sum);
}
#include<stdio.>
```

Use head -n25 filename to display any top number of line from file. In this case it is 25.

```
user@user-virtual-machine:~$ head -n25 add.txt
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b:
printf("Sum of Numbers:%d",&sum);
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
printf("Sum of Numbers:%d",&sum);
#include<stdio.>
void main()
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
```

Use head -c5 filename to display any number of byte from file. In his case it is 25. printuser@user-virtual-machine:~\$ head -c25 add.txt #include<stdio.>
yoid maiuser@user-virtual-machine:~\$

Use head -v filename to while displaying first 10 line from file, on top it shows name of the file.

Can also used as head -vn5 filename, first 5 line with name of file on top. (Only for one command at a time)

```
user@user-virtual-machine:~$ head -vn5 add.txt
==> add.txt <==
#include<stdio.>
void main()
{
int a,b,sum;
printf("Enter the Numbers:");
user@user-virtual-machine:~$
```

Use tail filename to display top 10 line from file

```
user@user-virtual-machine:~$ tail add.txt
}
#include<stdio.>
void main()
{
int a,b,sum;
printf("Enter the Numbers:");
scanf("%d%d",&a&b);
sum = a + b;
printf("Sum of Numbers:%d",&sum);
}
```

Use tail -n2 filename to display any top number of line from file. In his case it is 2.

```
user@user-virtual-machine:-$ tail -n2 add.txt
printf("Sum of Numbers:%d",&sum);
}
```

Use head -n15 filename && tail -n2 to consider line of top 15 lines within those line display last 2 lines.

```
user@user-virtual-machine:~$ head -n5 add.txt && tail -n2 add.txt
#include<stdio.>
void main()
{
int a,b,sum;
printf("Enter the Numbers:");
printf("Sum of Numbers:%d",&sum);
}
user@user-virtual-machine:~$
```

Use tac filename to reverse the file line by line as Reverse of cat is tac.

```
user@user-virtual-machine:-$ tac add.txt
printf("Sum of Numbers:%d",&sum);
sum = a + b;
scanf("%d%d",&a&b);
printf("Enter the Numbers:");
int a,b,sum;
void main()
#include<stdio.>
printf("Sum of Numbers:%d",&sum);
sum = a + b;
scanf("%d%d",&a&b);
printf("Enter the Numbers:");
int a,b,sum;
void main()
#include<stdio.>
printf("Sum of Numbers:%d",&sum);
sum = a + b;
scanf("%d%d",&a&b);
printf("Enter the Numbers:");
int a,b,sum;
void main()
#include<stdio.>
Use chmod u-w filename, revoke the write permission from the
    owner. g means group user
```

o means other a means all user If + it means add some permission If - then Revock some permission If = specify mode If **r** means **read** If w means write If x then it means execute The d means directory Starts from '-' means file Owner - group user - other means (drwxrwxrw) 0 no permission 1 w permission 2x permission 4 r permission To give all permission 4+2+1=7To give read and write permission 2+1=3777 --> (ugo) --> (owner permission , group-user permission, other permission). 000 --> (ugo) --> file has no permission.

chmod 000 filename given all the permission of filename to all user.

Use chmod 777 w2 to give all access to all users.

Use chmod a = rwx empty.txt to give read write execute access to all user.

```
user@user-virtual-machine: ~/w1$ chmod a=rwx empty.txt
user@user-virtual-machine: ~/w1$ ls -lh

total 8.0K
-rwxrwxrwx 1 user user 0 Sep 29 14:52 empty.txt
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file1
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file2
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file2
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file3
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file4
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file5
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file6
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file7
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file7
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file8
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file8
-rw-rw-r-- 1 user user 0 Sep 30 15:51 file8
-rw-rw-r-- 1 user user 4.0K Sep 29 17:15 s2
drwxrwxrwx 4 user user 4.0K Sep 29 14:40 ■
```

Question 1: Print only those people who's name starts with a and in ascending order?

```
user@user-virtual-machine:-$ cat sort.txt
nayan 79879
aatish 909
able 879
amit 132
adsh 8709
user@user-virtual-machine: $ sort -k1 sort.txt
aatish 909
able 879
adsh 8709
amit 132
nayan 79879
user@user-virtual-machine: $ grep '^a' sort.txt
atish 909
ble 879
mit 132
dsh 8709
user@user-virtual-machine:~$ sort -k1 sort.txt | grep '^a'
 atish 909
ble 879
dsh 8709
mit 132
```

Question 2 : Print top 3 files in a directory.

```
user@user-virtual-machine:~/w1$ is
empty.txt file10 file3 file5 file7 file9 w2
file1    file2 file4 file6 file8 s2
user@user-virtual-machine:~/w1$ is | head -n3
empty.txt
file1
file10
```