```
root@Mahipal:~# ls
''$'\032'  backup.sh          file.txt        kill_slow_log_2.sh  nohup.out  test.sql  vulnerabilities.csv
 SWs      basic_passwords.txt kill_slow_log.sh  mytraining          pass.txt   training  y
root@Mahipal:~# cat file.tx
cat: file.tx: No such file or directory
root@Mahipal:~# cat file.txt
hello
root@Mahipal:~# ls
''$'\032'  backup.sh          file.txt        kill_slow_log_2.sh  nohup.out  test.sql  vulnerabilities.csv
 SWs      basic_passwords.txt kill_slow_log.sh  mytraining          pass.txt   training  y
root@Mahipal:~# pwd
/root
root@Mahipal:~# ls -l>out.txt
root@Mahipal:~# ls
''$'\032'  backup.sh          file.txt        kill_slow_log_2.sh  nohup.out  pass.txt  training        y
 SWs      basic_passwords.txt kill_slow_log.sh  mytraining          out.txt   test.sql
vulnerabilities.csv
root@Mahipal:~# ls
''$'\032'  backup.sh          file.txt        kill_slow_log_2.sh  nohup.out  pass.txt  training        y
 SWs      basic_passwords.txt kill_slow_log.sh  mytraining          out.txt   test.sql
vulnerabilities.csv
root@Mahipal:~# cat out.txt
total 1936
-rw-r--r-- 1 root root    975 Sep 20  2021
drwxr-xr-x 1 root root   4096 Sep 20  2021 SWs
-rw-r--r-- 1 root root    682 Sep 20  2021 backup.sh
-rw-r--r-- 1 root root   3988 Aug  5 2021 basic_passwords.txt
-rw-r--r-- 1 root root      6 Jul 27 20:40 file.txt
```

```
-rw-r--r-- 1 root root     574 Oct 22  2021 kill_slow_log.sh

-rw-r--r-- 1 root root     620 Oct 22  2021 kill_slow_log_2.sh

drwxr-xr-x 1 root root    4096 Jul 23 21:39 mytraining

-rw------- 1 root root      62 Aug  2  2021 nohup.out

-rw-r--r-- 1 root root       0 Jul 27 20:44 out.txt

-rwxrwxr-x 1 root root      76 Sep 20  2021 pass.txt

-rw-r--r-- 1 root root    1259 Sep 20  2021 test.sql

drwxr-xr-x 1 root root    4096 Jul 20 21:36 training

-rw-r--r-- 1 root root 1952896 Aug  5  2021 vulnerabilities.csv

-rw-r--r-- 1 root root    2760 Aug  2  2021 y

root@Mahipal:~# ls>out2.txt

root@Mahipal:~# cat out2.txt


SWs

backup.sh

basic_passwords.txt

file.txt

kill_slow_log.sh

kill_slow_log_2.sh

mytraining

nohup.out

out.txt

out2.txt

pass.txt

test.sql

training

vulnerabilities.csv
```

y

root@Mahipal:~# cat out2.txt>out3.txt

root@Mahipal:~# cat out3.txt

SWs

backup.sh

basic_passwords.txt

file.txt

kill_slow_log.sh

kill_slow_log_2.sh

mytraining

nohup.out

out.txt

out2.txt

pass.txt

test.sql

training

vulnerabilities.csv

y

root@Mahipal:~# ls -l

total 1940

-rw-r--r-- 1 root root   975 Sep 20 2021 ''$'\032'

drwxr-xr-x 1 root root   4096 Sep 20 2021 SWs

-rw-r--r-- 1 root root   682 Sep 20 2021 backup.sh

-rw-r--r-- 1 root root   3988 Aug 5 2021 basic_passwords.txt

-rw-r--r-- 1 root root   6 Jul 27 20:40 file.txt

-rw-r--r-- 1 root root   574 Oct 22 2021 kill_slow_log.sh-rw-r--r-- 1 root root   620 Oct 22 2021 kill_slow_log_2.sh

```
drwxr-xr-x 1 root root    4096 Jul 23 21:39  mytraining

-rw------- 1 root root      62 Aug  2  2021  nohup.out

-rw-r--r-- 1 root root     830 Jul 27 20:44  out.txt

-rw-r--r-- 1 root root     168 Jul 27 20:45  out2.txt

-rw-r--r-- 1 root root     168 Jul 27 20:47  out3.txt

-rwxrwxr-x 1 root root      76 Sep 20  2021  pass.txt

-rw-r--r-- 1 root root    1259 Sep 20  2021  test.sql

drwxr-xr-x 1 root root    4096 Jul 20 21:36  training

-rw-r--r-- 1 root root 1952896 Aug  5  2021  vulnerabilities.csv

-rw-r--r-- 1 root root    2760 Aug  2  2021  y

root@Mahipal:~# mkdir test

root@Mahipal:~# cd test

root@Mahipal:~/test# ls

root@Mahipal:~/test# echo "hello">out1.txt

root@Mahipal:~/test# echo "HI">out2.txt

root@Mahipal:~/test# ls

out1.txt  out2.txt

root@Mahipal:~/test# ls -l

total 0

-rw-r--r-- 1 root root 6 Jul 27 20:50 out1.txt

-rw-r--r-- 1 root root 3 Jul 27 20:51 out2.txt

root@Mahipal:~/test# ls -l>file_info.txt

root@Mahipal:~/test# cat file_info.txt

total 0

-rw-r--r-- 1 root root 0 Jul 27 20:51 file_info.txt

-rw-r--r-- 1 root root 6 Jul 27 20:50 out1.txt

-rw-r--r-- 1 root root 3 Jul 27 20:51 out2.txt
```

```
root@Mahipal:~/test# ls -l | grep -v "file_info.txt" >^C

root@Mahipal:~/test# ls -l | grep -v "file_info.txt" >file_info.txt

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat file_info.txt

total 0

-rw-r--r-- 1 root root 6 Jul 27 20:50 out1.txt

-rw-r--r-- 1 root root 3 Jul 27 20:51 out2.txt

root@Mahipal:~/test# ls

file_info.txt  out1.txt  out2.txt

root@Mahipal:~/test# cat movi.mp4> /root/training/


root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep -c "ABC"

1

root@Mahipal:~/test/grep# cat file_search.txt | grep -l "AB"

(standard input)

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep -l "AB" *

file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep -w "AB" *

root@Mahipal:~/test/grep#
```

```
root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# grep -v "ABC" file_search.txt

Hello,

Good morning.

This is the example for grep commands.

TTS

fsj

5959

sfdlsd

Qfs

root@Mahipal:~/test/grep# grep -c "ABC" file_search.txt

1

root@Mahipal:~/test/grep# grep -w "ABC" file_search.txt

ABC XYZ

root@Mahipal:~/test/grep# grep -w "AB" file_search.txt

root@Mahipal:~/test/grep# grep -o "AB" file_search.txt

AB

root@Mahipal:~/test/grep# grep -n "AB" file_search.txt

4:ABC XYZ

root@Mahipal:~/test/grep# grep -n "ABC" file_search.txt

4:ABC XYZ

root@Mahipal:~/test/grep# cat file_search.txt

Hello,

Good morning.

This is the example for grep commands.

ABC XYZ
```

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root@Mahipal:~/test/grep# grep -n "*ABC" file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# grep -i "ABC$" file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt

Hello,

Good morning.

This is the example for grep commands.

ABC XYZ

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root@Mahipal:~/test/grep# cat file_search.txt | awk '{print $1}'

Hello,

Good

This

ABC

TTS

fsj

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Qfs

root@Mahipal:~/test/grep# cat file_search.txt | awk '{print $2}'

morning.

is

XYZ

root@Mahipal:~/test/grep# cat file_search.txt | awk '{print $3}'

the

root@Mahipal:~/test/grep# cat file_search.txt | awk '{print $1}'

Hello,

Good

This

ABC

TTS

fsj

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Qfs

root@Mahipal:~/test/grep# cat file_search.txt | awk NR==2

'{print $1}'

awk: fatal: cannot open file `{print $1}' for reading (No such file or directory)

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | awk NR=2 '{print $1}'

awk: fatal: cannot open file `{print $1}' for reading (No such file or directory)

root@Mahipal:~/test/grep# cat file_search.txt | awk 'NR=2

{print $1}'

Hello,

Good

This

ABC

TTS

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Qfs

root@Mahipal:~/test/grep# cat file_search.txt | awk NR=2, {print $1}'

> ^C

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | awk {printNR==3, $1}'

> ^C

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# awk 'NR==4, {print NR,$0}' file_search.txt

awk: cmd. line:1: 'NR==4,

awk: cmd. line:1: ^ invalid char '' in expression

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# awk 'NR==4, {print NR,$0}' file_search.txt

awk: cmd. line:1: NR==4, {print NR,$0}

awk: cmd. line:1:   ^ syntax error

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# awk 'NR==4, {print$0}' file_search.txt

awk: cmd. line:1: NR==4, {print$0}

awk: cmd. line:1:   ^ syntax error

root@Mahipal:~/test/grep# awk 'NR==4 {print$0}' file_search.txt

ABC XYZ

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# awk 'NR==4 {print$1}' file_search.txt

ABC

root@Mahipal:~/test/grep# awk 'NR==1 {print$1}' file_search.txt

Hello,

root@Mahipal:~/test/grep# awk 'NR==1 {print$3}' file_search.txt

```
root@Mahipal:~/test/grep# awk 'NR==1 {print$1}' file_search.txt

Hello,

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# man awk


[4]+  Stopped                man awk




root@Mahipal:~/test# vi test.sh

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# sh test.sh

test.sh: 2: Syntax error: Unterminated quoted string

root@Mahipal:~/test# echo "hello 2>file.txt

>

> ^C

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat file.txt

cat: file.txt: No such file or directory

root@Mahipal:~/test# ls

attachment.txt  file_info.txt  out1.txt  out2.txt  test.sh

root@Mahipal:~/test#

root@Mahipal:~/test# echo "hello 2">file.txt
```

```
root@Mahipal:~/test#

root@Mahipal:~/test# ls

attachment.txt  file_info.txt  out2.txt

file.txt     out1.txt     test.sh

root@Mahipal:~/test# vi test.sh

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# sh test.sh

test.sh: 2: Syntax error: Unterminated quoted string

root@Mahipal:~/test# sh test.sh 2>err.txt

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat err.txt

test.sh: 2: Syntax error: Unterminated quoted string

root@Mahipal:~/test# cat test.txt

cat: test.txt: No such file or directory

root@Mahipal:~/test# cat test.sh

echo "hello

root@Mahipal:~/test# sh test.sh 2>err2.txt

root@Mahipal:~/test# cat err2.txt

test.sh: 2: Syntax error: Unterminated quoted string

root@Mahipal:~/test# ls

attachment.txt  err2.txt  file_info.txt  out2.txt

err.txt      file.txt  out1.txt     test.sh

root@Mahipal:~/test#

root@Mahipal:~/test# vi test.sh

root@Mahipal:~/test#
```

```
root@Mahipal:~/test# sh test.sh 2>&1 err3.txt

hello

test.sh: 3: Syntax error: Unterminated quoted string

root@Mahipal:~/test# sh test.sh 2>&1>err3.txt

test.sh: 3: Syntax error: Unterminated quoted string

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat err3.txt

hello

root@Mahipal:~/test# sh test.sh >err3.txt 2&>1

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat err3.txt

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# echo "Happy birthday" 2>errr.txt

Happy birthday

root@Mahipal:~/test# cat errr.txt

root@Mahipal:~/test# echo "Happy birthday 2>errr.txt

> ^C

root@Mahipal:~/test#

root@Mahipal:~/test#

root@Mahipal:~/test# cat errr.txt

root@Mahipal:~/test# mkdir grep`

root@Mahipal:~/test# cd grep
```

root@Mahipal:~/test/grep# ls

root@Mahipal:~/test/grep# vi file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# ls

file_search.txt

root@Mahipal:~/test/grep# cat file_search.txt

Hello,

Good morning.

This is the example for grep commands.

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root@Mahipal:~/test/grep# vi file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# vi file_search.txt | grepipal:~/Usage: grep [OPTION]... PATTERNS [FILE]...

Try 'grep --help' for more information.

Vim: Warning: Output is not to a terminal

^CError detected while processing /usr/share/vim/vimrc:

line   1:

Interrupted

Error detected while processing /usr/share/vim/vim81/defaults.vim:

line   1:

Interrupted

Interrupt: Press ENTER or type command to continue

[1]+ Stopped   vi file_search.txt | grep --color=auto

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep "ABC"

ABC

root@Mahipal:~/test/grep# vi file_search.txt

root@Mahipal:~/test/grep# 4

4: command not found

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep "ABC"

ABC XYZ

root@Mahipal:~/test/grep# man grep

[2]+ Stopped   man grep

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# cat file_search.txt | grep -i "abc"

ABC XYZ

root@Mahipal:~/test/grep# cat file_search.txt | grep "abc"

root@Mahipal:~/test/grep# cat file_search.txt | grep -v "abc"

Hello,

Good morning.

This is the example for grep commands.

ABC XYZ

TTS

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sfdlsd

Qfs

root@Mahipal:~/test/grep# cat file_search.txt | grep -v "ABC"

Hello,

Good morning.

This is the example for grep commands.

TTS

fsj

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Qfs

root@Mahipal:~/test/grep# ls

file_search.txt

root@Mahipal:~/test/grep# vi abc.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# ls

abc.txt file_search.txt

root@Mahipal:~/test/grep#

root@Mahipal:~/test/grep# ls | grep "txt"

abc.txt

file_search.txt

root@Mahipal:~/test/grep# man grep

```
[3]+  Stopped                man grep
root@Mahipal:~/test/grep#
root@Mahipal:~/test/grep#
root@Mahipal:~/test/grep#
root@Mahipal:~/test/grep# ls | grep
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
root@Mahipal:~/test/grep#  ls
abc.txt  file_search.txt
root@Mahipal:~/test/grep# grep "txt"
^C
root@Mahipal:~/test/grep# grep "txt" file_search.txt
```