

```
Terminal - 23mce13@ailab-il11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-il11: ~/Desktop
23mce13@ailab-il11: ~/Desktop/OS_LAB$ date
Wednesday 06 August 2025 11:16:07 AM IST
23mce13@ailab-il11: ~/Desktop/OS_LAB$ cal
bash: cal: command not found
23mce13@ailab-il11: ~/Desktop/OS_LAB$ echo "hello world"
hello world
23mce13@ailab-il11: ~/Desktop/OS_LAB$ man ls
23mce13@ailab-il11: ~/Desktop/OS_LAB$ ls
man_ls.png
23mce13@ailab-il11: ~/Desktop/OS_LAB$ pwd
/users/imtech/23mce13/Desktop/OS_LAB
23mce13@ailab-il11: ~/Desktop/OS_LAB$ mkdir temp
23mce13@ailab-il11: ~/Desktop/OS_LAB$ ls
man_ls.png temp
23mce13@ailab-il11: ~/Desktop/OS_LAB$ cd..
bash: cd..: command not found
23mce13@ailab-il11: ~/Desktop/OS_LAB$ cd
23mce13@ailab-il11: ~$ cd Desktop/OS_LAB
23mce13@ailab-il11: ~/Desktop/OS_LAB$ rm temp
rm: cannot remove 'temp': Is a directory
23mce13@ailab-il11: ~/Desktop/OS_LAB$ rmdir temp
23mce13@ailab-il11: ~/Desktop/OS_LAB$ ls
man_ls.png
23mce13@ailab-il11: ~/Desktop/OS_LAB$
```

```
Terminal - 23mccel3@ailab-ii11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mccel3@ailab-ii11: ~/Desktop
23mccel3@ailab-ii11: ~/Desktop/OS_LAB

LS(1) User Commands LS(1)

NAME
ls - list directory contents

SYNOPSIS
ls [OPTION]... [FILE]...

DESCRIPTION
List information about the FILES (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all
do not ignore entries starting with .

-A, --almost-all
do not list implied . and ..

--author
with -l, print the author of each file

-b, --escape
print C-style escapes for nongraphic characters

--block-size=SIZE

Manual page ls(1) line 1 (press h for help or q to quit)
```

File Edit View Terminal Tabs Help

23mcce13@ailab-il11: ~/Desktop

✕

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat > temp.txt
```

hello

world

123

abc

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
```

hello

world

123

abc

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat >> temp.txt
```

appending new lines

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
```

hello

world

123

abc

appending new lines

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat new.txt
```

cat: new.txt: No such file or directory

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat > new.txt
```

for merging

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt new.txt > final.txt
```

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat final.txt
```

hello

world

123

abc

appending new lines

for merging

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$
```

```
Terminal - 23mce13@ailab-ii11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-ii11: ~/Desktop
23mce13@ailab-ii11:~/Desktop/OS_LAB$ cat temp.txt
hello
world
123
abc
appending new lines
23mce13@ailab-ii11:~/Desktop/OS_LAB$ sort temp.txt
123
abc
appending new lines
hello
world
23mce13@ailab-ii11:~/Desktop/OS_LAB$ sort -r temp.txt
world
hello
appending new lines
abc
123
23mce13@ailab-ii11:~/Desktop/OS_LAB$ sort temp.txt > final.txt
23mce13@ailab-ii11:~/Desktop/OS_LAB$ cat final.txt
123
abc
appending new lines
hello
world
23mce13@ailab-ii11:~/Desktop/OS_LAB$
```

```
23mcce13@ailab-il11: ~/Desktop/OS_LAB$ cat new.txt
for merging
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
hello
world
123
abc
appending new lines
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cp new.txt temp.txt
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
for merging
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cd ..
23mcce13@ailab-il11:~/Desktop$ ls
23MCCE13_13_02_2025  23MCCE13_Minor  cbnmlab  Desktop  dfslab  final.txt  itlab  IT_LAB  JAVA_LAB  move.txt  OS_LAB  temp.txt
23mcce13@ailab-il11:~/Desktop$ mv move.txt OS_LAB
23mcce13@ailab-il11:~/Desktop$ ls
23MCCE13_13_02_2025  23MCCE13_Minor  cbnmlab  Desktop  dfslab  final.txt  itlab  IT_LAB  JAVA_LAB  OS_LAB  temp.txt
23mcce13@ailab-il11:~/Desktop$ ls OS_LAB
Desktop  final.txt  man_ls.png  move.txt  'Output(10).png'  'Output(11).png'  'Output(1-9).png'  temp.txt
23mcce13@ailab-il11:~/Desktop$ cd OS_LAB
23mcce13@ailab-il11:~/Desktop/OS_LAB$ rm move.txt
23mcce13@ailab-il11:~/Desktop/OS_LAB$ ls
Desktop  final.txt  man_ls.png  'Output(10).png'  'Output(11).png'  'Output(1-9).png'  temp.txt
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
for merging
23mcce13@ailab-il11:~/Desktop/OS_LAB$ wc temp.txt
1 2 12 temp.txt
23mcce13@ailab-il11:~/Desktop/OS_LAB$
```

```
Terminal - 23mce13@ailab-ii11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-ii11: ~/Desktop
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ cat lines.txt
1
2
3
4
5
6
7
8
9
10
11
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ head lines.txt
1
2
3
4
5
6
7
8
9
10
11
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ head -n 3 lines.txt
1
2
3
23mce13@ailab-ii11: ~/Desktop/OS_LAB$
```

```
Terminal - 23mce13@ailab-ii11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-ii11: ~/Desktop
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ cat lines.txt
1
2
3
4
5
6
7
8
9
10
11
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ tail lines.txt
2
3
4
5
6
7
8
9
10
11
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ tail -n 3 lines.txt
9
10
11
23mce13@ailab-ii11: ~/Desktop/OS_LAB$
```

```
Terminal - 23mce13@ailab-ii11: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-ii11: ~/Desktop
23mce13@ailab-ii11: ~/Desktop/OS_LAB$ more lines.txt
1
2
3
4
5
more lines.txt command
(END)
```



```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ ls | wc
```

```
12      12     157
```

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt
```

```
for merging
```

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ cat temp.txt | tr [a-z] [A-Z]
```

```
FOR MERGING
```

```
23mce13@ailab-111: ~/Desktop
File Edit View Terminal Tabs Help
23mce13@ailab-111: ~/Desktop
23mce13@ailab-111:~/Desktop/OS_LAB$ ls -l
total 1140
-rw-r--r-- 1 23mce13 imtech23 15 Aug 6 10:42 Desktop
-r--r--r-- 1 23mce13 imtech23 40 Aug 6 11:34 final.txt
-rw-r--r-- 1 23mce13 imtech23 34 Aug 6 11:53 lines.txt
-rw-r--r-- 1 23mce13 imtech23 110052 Aug 6 11:18 man_ls.png
-rw-r--r-- 1 23mce13 imtech23 118608 Aug 6 11:32 'Output(10).png'
-rw-r--r-- 1 23mce13 imtech23 140226 Aug 6 11:36 'Output(11).png'
-rw-r--r-- 1 23mce13 imtech23 265962 Aug 6 11:46 'Output(12-15).png'
-rw-r--r-- 1 23mce13 imtech23 90431 Aug 6 11:51 'Output(16).png'
-rw-r--r-- 1 23mce13 imtech23 89994 Aug 6 11:50 'Output(17).png'
-rw-r--r-- 1 23mce13 imtech23 48734 Aug 6 11:54 'Output(18).png'
-rw-r--r-- 1 23mce13 imtech23 231324 Aug 6 11:25 'Output(1-9).png'
-rw-r--r-- 1 23mce13 imtech23 43789 Aug 6 12:04 'Output(20-21).png'
-rw-r--r-- 1 23mce13 imtech23 12 Aug 6 11:38 temp.txt
23mce13@ailab-111:~/Desktop/OS_LAB$ chmod 777 final.txt
23mce13@ailab-111:~/Desktop/OS_LAB$ chmod +x lines.txt
23mce13@ailab-111:~/Desktop/OS_LAB$ ls -l
total 1140
-rw-r--r-- 1 23mce13 imtech23 15 Aug 6 10:42 Desktop
-rwxrwxrwx 1 23mce13 imtech23 40 Aug 6 11:34 final.txt
-rwxr-xr-x 1 23mce13 imtech23 34 Aug 6 11:53 lines.txt
-rw-r--r-- 1 23mce13 imtech23 110052 Aug 6 11:18 man_ls.png
-rw-r--r-- 1 23mce13 imtech23 118608 Aug 6 11:32 'Output(10).png'
-rw-r--r-- 1 23mce13 imtech23 140226 Aug 6 11:36 'Output(11).png'
-rw-r--r-- 1 23mce13 imtech23 265962 Aug 6 11:46 'Output(12-15).png'
-rw-r--r-- 1 23mce13 imtech23 90431 Aug 6 11:51 'Output(16).png'
-rw-r--r-- 1 23mce13 imtech23 89994 Aug 6 11:50 'Output(17).png'
-rw-r--r-- 1 23mce13 imtech23 48734 Aug 6 11:54 'Output(18).png'
-rw-r--r-- 1 23mce13 imtech23 231324 Aug 6 11:25 'Output(1-9).png'
-rw-r--r-- 1 23mce13 imtech23 43789 Aug 6 12:04 'Output(20-21).png'
-rw-r--r-- 1 23mce13 imtech23 12 Aug 6 11:38 temp.txt
23mce13@ailab-111:~/Desktop/OS_LAB$
```

23mcce13@ailab-il11: ~/Desktop

```
23mcce13@ailab-il11:~/Desktop/OS_LAB$ ls -l lines.txt
-rwxr-xr-x 1 23mcce13 imtech23 34 Aug  6 11:53 lines.txt
23mcce13@ailab-il11:~/Desktop/OS_LAB$ chown 23mcce05 lines.txt
chown: changing ownership of 'lines.txt': Operation not permitted
23mcce13@ailab-il11:~/Desktop/OS_LAB$ chgrp imtech24 lines.txt
chgrp: changing group of 'lines.txt': Operation not permitted
23mcce13@ailab-il11:~/Desktop/OS_LAB$
```

```
Terminal - 23mce13@ailab-111: ~/Desktop/OS_LAB
File Edit View Terminal Tabs Help
23mce13@ailab-111: ~/Desktop
23mce13@ailab-111: ~/Desktop/OS_LAB$ cat Fibonacci.sh
#!/bin/bash

a=0
b=1

echo -n "Enter number of elements : "
read n

echo ""

echo -n "Series : "

for((i=0;i<n;i++))
do
    echo -n "$a "

    c=$((a+b))
    a=$b
    b=$c
done
echo
23mce13@ailab-111:~/Desktop/OS_LAB$ bash Fibonacci.sh
Enter number of elements :10

Series :0 1 1 2 3 5 8 13 21 34
23mce13@ailab-111:~/Desktop/OS_LAB$
```