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Activities Terminal Apr 13 16:25
sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$ ls
case.sh Downloads Music Pictures table.sh vita1.sh
circle.sh evenodd.sh myinext.sh posneg.sh Templates while.sh
commandline.sh ifelif.sh my1.sh Public test.txt
Desktop if.sh number.sh reader.sh until.sh
Documents leapyear.sh pattern.sh snap Videos
sarthak@sarthak-virtual-machine:~$ ls -l
total 108
-rwxrwxrwx 1 sarthak sarthak 209 Dec 29 16:05 case.sh
-rwxrwxrwx 1 sarthak sarthak 66 Dec 29 20:28 circle.sh
-rw-rw-r-- 1 sarthak sarthak 1 Dec 29 11:29 commandline.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Desktop
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Documents
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Downloads
-rwxrwxrwx 1 sarthak sarthak 101 Dec 29 12:05 evenodd.sh
-rwxrwxrwx 1 sarthak sarthak 170 Dec 29 11:46 ifelif.sh
-rwxrwxrwx 1 sarthak sarthak 209 Dec 29 11:41 if.sh
-rwxrwxrwx 1 sarthak sarthak 167 Dec 29 12:35 leapyear.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Music
-rwxrwxrwx 1 sarthak sarthak 55 Dec 29 10:05 myinext.sh
-rwxrwxrwx 1 sarthak sarthak 55 Dec 29 10:05 my1.sh
-rwxrwxrwx 1 sarthak sarthak 211 Dec 29 12:02 number.sh
-rwxrwxrwx 1 sarthak sarthak 153 Dec 29 15:48 pattern.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Pictures
-rwxrwxrwx 1 sarthak sarthak 196 Dec 29 12:12 posneg.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Public
-rwxrwxrwx 1 sarthak sarthak 102 Dec 29 10:44 reader.sh
drwx----- 5 sarthak sarthak 4096 Dec 30 09:34 snap
-rwxrwxrwx 1 sarthak sarthak 83 Dec 29 15:33 table.sh
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Activities Terminal Apr 13 16:26
sarthak@sarthak-virtual-machine: ~
-rw-rw-r-- 1 sarthak sarthak 128 Dec 29 15:38 direction.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Videos
-rw-rw-r-- 1 sarthak sarthak 15 Dec 29 10:16 vita1.sh
-rwxrwxrwx 1 sarthak sarthak 71 Dec 29 15:53 while.sh
sarthak@sarthak-virtual-machine:~$ ls -la
. Desktop Music snap
.. Documents myinext.sh .ssh
.bash_history Downloads my1.sh .sudo_as_admin_successful
.bash_logout evenodd.sh number.sh table.sh
.bashrc .gnupg pattern.sh Templates
.cache ifelif.sh Pictures test.txt
case.sh if.sh posneg.sh until.sh
circle.sh leapyear.sh .profile Videos
commandline.sh .lessht Public vita1.sh
.config .local reader.sh while.sh
sarthak@sarthak-virtual-machine:~$ pwd
/home/sarthak
sarthak@sarthak-virtual-machine:~$ mkdir dir1
sarthak@sarthak-virtual-machine:~$ ls
case.sh Downloads myinext.sh Public until.sh
circle.sh evenodd.sh my1.sh reader.sh Videos
commandline.sh ifelif.sh number.sh snap vita1.sh
Desktop if.sh pattern.sh table.sh while.sh
dir1 leapyear.sh Pictures Templates
Documents Music posneg.sh test.txt
sarthak@sarthak-virtual-machine:~$ touch file1.txt
sarthak@sarthak-virtual-machine:~$ touch file2.txt
sarthak@sarthak-virtual-machine:~$ ls
case.sh Downloads leapyear.sh Pictures Templates
circle.sh evenodd.sh Music posneg.sh test.txt
commandline.sh file1.txt myinext.sh Public until.sh
```

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Activities Terminal Apr 13 16:26 sarthak@sarthak-virtual-machine: ~
dir1      trellis.sn  number.sn  snap      vttai.sn
Documents if.sh       pattern.sh table.sh   while.sh
sarthak@sarthak-virtual-machine:~$ cat table.sh
#!/bin/bash
n=2
for i in {100..0..10}
do
    echo "$n X $i = $((n*i))"
    #echo $i
done
sarthak@sarthak-virtual-machine:~$ cat >file1.txt
hey....how are you?
^C
sarthak@sarthak-virtual-machine:~$ cat file1.txt
hey....how are you?
sarthak@sarthak-virtual-machine:~$ cat >file2.txt
I'm fine thank you...and what about you?
^C
sarthak@sarthak-virtual-machine:~$ cat file2.txt
I'm fine thank you...and what about you?
sarthak@sarthak-virtual-machine:~$ cat file1.txt > file2.txt
sarthak@sarthak-virtual-machine:~$ cat file1.txt
hey....how are you?
sarthak@sarthak-virtual-machine:~$ cat file1.txt >> file2.txt
sarthak@sarthak-virtual-machine:~$ cat file1.txt
hey....how are you?
sarthak@sarthak-virtual-machine:~$ cat file2.txt
hey....how are you?
hey....how are you?
sarthak@sarthak-virtual-machine:~$ cat > file2.txt
^C
```

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Activities Terminal Apr 13 16:27 sarthak@sarthak-virtual-machine: ~
^C
sarthak@sarthak-virtual-machine:~$ cat file2.txt
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~$ cat file1.txt
hey....how are you?
sarthak@sarthak-virtual-machine:~$ cat file2.txt >> file1.txt
sarthak@sarthak-virtual-machine:~$ cat file1.txt
hey....how are you?
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~$ whoami
sarthak
sarthak@sarthak-virtual-machine:~$ hostnamectl
Static hostname: sarthak-virtual-machine
Icon name: computer-vm
Chassis: vm
Machine ID: 88b3386e845c43cd862e69b824296aa8
Boot ID: 9f00d177ed074607b26b329e9ccc6417
Virtualization: vmware
Operating System: Ubuntu 22.04.1 LTS
Kernel: Linux 5.15.0-58-generic
Architecture: x86_64
Hardware Vendor: VMware, Inc.
Hardware Model: VMware Virtual Platform
sarthak@sarthak-virtual-machine:~$ cd dir1
sarthak@sarthak-virtual-machine:~/dir1$ cp file1.txt
cp: missing destination file operand after 'file1.txt'
Try 'cp --help' for more information.
sarthak@sarthak-virtual-machine:~/dir1$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
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Activities Terminal Apr 13 16:27 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~/dir1$ cat
Command 'cal' not found, but can be installed with:
sudo apt install ncal
sarthak@sarthak-virtual-machine:~/dir1$ sudo apt install ncal
[sudo] password for sarthak:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
ncal
0 upgraded, 1 newly installed, 0 to remove and 265 not upgraded.
Need to get 20.2 kB of archives.
After this operation, 69.6 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 ncal amd64 12.1.7+nmu3ubuntu2 [20.2 kB]
Fetched 20.2 kB in 1s (25.6 kB/s)
Selecting previously unselected package ncal.
(Reading database ... 195616 files and directories currently installed.)
Preparing to unpack .../ncal_12.1.7+nmu3ubuntu2_amd64.deb ...
Unpacking ncal (12.1.7+nmu3ubuntu2) ...
Setting up ncal (12.1.7+nmu3ubuntu2) ...
Processing triggers for man-db (2.10.2-1) ...
sarthak@sarthak-virtual-machine:~/dir1$ cal
April 2023
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
sarthak@sarthak-virtual-machine:~/dir1$ cd..
cd..: command not found
sarthak@sarthak-virtual-machine:~/dir1$ cd
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Activities Terminal Apr 13 16:28 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~/dir1$ cd..
cd..: command not found
sarthak@sarthak-virtual-machine:~/dir1$ cd ..
sarthak@sarthak-virtual-machine:~$ cp file1.txt /home/AC
sarthak@sarthak-virtual-machine:~$ cp file1.txt /home/sarthak-virtual-machine/dir1
cp: cannot create regular file '/home/sarthak-virtual-machine/dir1': No such file or directory
sarthak@sarthak-virtual-machine:~$ cp file1.txt /home/sarthak/dir1
sarthak@sarthak-virtual-machine:~$ ls
case.sh      Downloads  leapyear.sh  Pictures  Templates
circle.sh    evenodd.sh Music       posneg.sh  test.txt
commandline.sh file1.txt  myinext.sh  Public    until.sh
Desktop      file2.txt  my1.sh      reader.sh  Videos
dir1         ifelif.sh  number.sh   snap       vita1.sh
Documents    if.sh      pattern.sh  table.sh   while.sh
sarthak@sarthak-virtual-machine:~$ cd dir1
sarthak@sarthak-virtual-machine:~/dir1$ ls
file1.txt
sarthak@sarthak-virtual-machine:~/dir1$ cat file1.txt
hey....how are you?
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~/dir1$ echo "i am also good"
i am also good
sarthak@sarthak-virtual-machine:~/dir1$ grep "thank" file1.txt
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~/dir1$ cd ~
sarthak@sarthak-virtual-machine:~$ ls -l
total 120
-rwxrwxrwx 1 sarthak sarthak 209 Dec 29 16:05 case.sh
-rwxrwxrwx 1 sarthak sarthak 66 Dec 29 20:28 circle.sh
-rw-rw-r-- 1 sarthak sarthak 1 Dec 29 11:29 commandline.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Desktop
drwxrwxr-x 2 sarthak sarthak 4096 Apr 13 16:02 dir1
drwxrwxr-x 2 sarthak sarthak 4096 Dec 28 09:26 Documents
drwxrwxr-x 2 sarthak sarthak 4096 Dec 28 09:26 Downloads
drwxrwxr-x 2 sarthak sarthak 4096 Dec 28 09:26 Music
drwxrwxr-x 2 sarthak sarthak 4096 Dec 28 09:26 Pictures
drwxrwxr-x 2 sarthak sarthak 4096 Dec 28 09:26 Templates
-rw-rw-r-- 1 sarthak sarthak 1024 Dec 28 09:26 test.txt
-rw-rw-r-- 1 sarthak sarthak 1024 Dec 28 09:26 until.sh
-rw-rw-r-- 1 sarthak sarthak 1024 Dec 28 09:26 Videos
-rw-rw-r-- 1 sarthak sarthak 1024 Dec 28 09:26 vita1.sh
-rw-rw-r-- 1 sarthak sarthak 1024 Dec 28 09:26 while.sh
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Activities Terminal Apr 13 16:28 sarthak@sarthak-virtual-machine: ~

-rwxrwxrwx 1 sarthak sarthak 101 Dec 29 12:05 evenodd.sh
-rw-rw-r-- 1 sarthak sarthak 57 Apr 13 15:49 file1.txt
-rw-rw-r-- 1 sarthak sarthak 37 Apr 13 15:48 file2.txt
-rwxrwxrwx 1 sarthak sarthak 170 Dec 29 11:46 ifelif.sh
-rwxrwxrwx 1 sarthak sarthak 209 Dec 29 11:41 if.sh
-rwxrwxrwx 1 sarthak sarthak 167 Dec 29 12:35 leapyear.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Music
-rwxrwxrwx 1 sarthak sarthak 55 Dec 29 10:05 myinext.sh
-rwxrwxrwx 1 sarthak sarthak 55 Dec 29 10:05 my1.sh
-rwxrwxrwx 1 sarthak sarthak 211 Dec 29 12:02 number.sh
-rwxrwxrwx 1 sarthak sarthak 153 Dec 29 15:48 pattern.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Pictures
-rwxrwxrwx 1 sarthak sarthak 196 Dec 29 12:12 posneg.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Public
-rwxrwxrwx 1 sarthak sarthak 102 Dec 29 10:44 reader.sh
drwx----- 5 sarthak sarthak 4096 Dec 30 09:34 snap
-rwxrwxrwx 1 sarthak sarthak 83 Dec 29 15:33 table.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Templates
-rwxrwxrwx 1 sarthak sarthak 75 Dec 30 09:19 test.txt
-rw-rw-r-- 1 sarthak sarthak 120 Dec 29 15:56 until.sh
drwxr-xr-x 2 sarthak sarthak 4096 Dec 28 09:26 Videos
-rw-rw-r-- 1 sarthak sarthak 15 Dec 29 10:16 vita1.sh
-rwxrwxrwx 1 sarthak sarthak 71 Dec 29 15:53 while.sh
sarthak@sarthak-virtual-machine:~$ rm file2.txt
sarthak@sarthak-virtual-machine:~$ ls
case.sh          Downloads      Music          posneg.sh      test.txt
circle.sh        evenodd.sh    myinext.sh     Public         until.sh
commandline.sh  file1.txt     my1.sh         reader.sh      Videos
Desktop          ifelif.sh    number.sh      snap           vita1.sh
dir1             if.sh         pattern.sh     table.sh       while.sh
Documents        leapyear.sh  Pictures       Templates
sarthak@sarthak-virtual-machine:~$ mv file1.txt myfile.txt
```

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Activities Terminal Apr 13 16:28 sarthak@sarthak-virtual-machine: ~

sarthak@sarthak-virtual-machine:~$ mv file1.txt myfile.txt
sarthak@sarthak-virtual-machine:~$ ls
case.sh          Downloads      myinext.sh     posneg.sh      test.txt
circle.sh        evenodd.sh    my1.sh         Public         until.sh
commandline.sh  myfile.txt    myfile.txt     reader.sh      Videos
Desktop          if.sh         number.sh      snap           vita1.sh
dir1             leapyear.sh  pattern.sh     table.sh       while.sh
Documents        Music        Pictures       Templates
sarthak@sarthak-virtual-machine:~$ nano chmod 755 demo.txt
sarthak@sarthak-virtual-machine:~$ nano chmod 755 demo.txt
sarthak@sarthak-virtual-machine:~$ at demo.txt
^[[A^Csarthak@sarthak-virtual-machine:~$ cat demo.txt
sarthak@sarthak-virtual-machine:~$ cat demo.txt
sarthak@sarthak-virtual-machine:~$ nano chmod 755 demo.txt
sarthak@sarthak-virtual-machine:~$ cat demo.txt
sarthak@sarthak-virtual-machine:~$ nano chmod 755 demo.txt
sarthak@sarthak-virtual-machine:~$ head -n 5 pattern.sh
# echo -n will print on the current line
# echo will shift in next line
for((i=1;i<=5;i++))
do
    for((j=1;j<=i;j++))
sarthak@sarthak-virtual-machine:~$ tail -n 5 pattern.sh
do
    echo -n "X"
done
echo
done
sarthak@sarthak-virtual-machine:~$ find . -name "*.txt"
./test.txt
./demo.txt
./.cache/tracker3/files/first-index.txt
```



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Activities Terminal Apr 13 16:30
sarthak@sarthak-virtual-machine: ~
sys-devices-virtual-block-loop8.device
lines 40-62
sarthak@sarthak-virtual-machine:~$ lsblk -a
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
fd0 2:0 1 4K 0 disk
loop0 7:0 0 4K 1 loop /snap/bare/5
loop1 7:1 0 63.3M 1 loop /snap/core20/1822
loop2 7:2 0 63.3M 1 loop /snap/core20/1852
loop3 7:3 0 72.9M 1 loop /snap/core22/522
loop4 7:4 0 239.9M 1 loop /snap/firefox/2487
loop5 7:5 0 73M 1 loop /snap/core22/607
loop6 7:6 0 0B 1 loop
loop7 7:7 0 346.3M 1 loop /snap/gnome-3-38-2004/119
loop8 7:8 0 349.7M 1 loop /snap/gnome-3-38-2004/137
loop9 7:9 0 91.7M 1 loop /snap/gtk-common-themes/1535
loop10 7:10 0 45.9M 1 loop /snap/snap-store/638
loop11 7:11 0 9.6M 1 loop /snap/htop/3605
loop12 7:12 0 460.4M 1 loop /snap/gnome-42-2204/68
loop13 7:13 0 9.6M 1 loop /snap/htop/3654
loop14 7:14 0 49.8M 1 loop /snap/snapd/18596
loop15 7:15 0 49.8M 1 loop /snap/snapd/18357
loop16 7:16 0 45.9M 1 loop /snap/snap-store/582
loop17 7:17 0 304K 1 loop /snap/snapd-desktop-integration/49
loop18 7:18 0 428K 1 loop /snap/snapd-desktop-integration/57
loop19 7:19 0 241.9M 1 loop /snap/firefox/2559
sda 8:0 0 25G 0 disk
├─sda1 8:1 0 1M 0 part
├─sda2 8:2 0 513M 0 part /boot/efi
└─sda3 8:3 0 24.5G 0 part /var/snap/firefox/common/host-hunspell
sr0 11:0 1 126.8M 0 rom /media/sarthak/CDROM
```

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Activities Terminal Apr 13 16:30
sarthak@sarthak-virtual-machine: ~
sr0 11:0 1 126.8M 0 rom /media/sarthak/CDROM
sr1 11:1 1 1024M 0 rom
sarthak@sarthak-virtual-machine:~$ lsblk -b
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
fd0 2:0 1 4096 0 disk
loop0 7:0 0 4096 1 loop /snap/bare/5
loop1 7:1 0 66355200 1 loop /snap/core20/1822
loop2 7:2 0 66392064 1 loop /snap/core20/1852
loop3 7:3 0 76447744 1 loop /snap/core22/522
loop4 7:4 0 251527168 1 loop /snap/firefox/2487
loop5 7:5 0 76537856 1 loop /snap/core22/607
loop7 7:7 0 363151360 1 loop /snap/gnome-3-38-2004/119
loop8 7:8 0 366673920 1 loop /snap/gnome-3-38-2004/137
loop9 7:9 0 96141312 1 loop /snap/gtk-common-themes/1535
loop10 7:10 0 48160768 1 loop /snap/snap-store/638
loop11 7:11 0 10113024 1 loop /snap/htop/3605
loop12 7:12 0 482750464 1 loop /snap/gnome-42-2204/68
loop13 7:13 0 10113024 1 loop /snap/htop/3654
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Activities Terminal Apr 13 16:30
sarthak@sarthak-virtual-machine: ~

loop14 7:14 0 52260864 1 loop /snap/snapd/18596
loop15 7:15 0 52260864 1 loop /snap/snapd/18357
loop16 7:16 0 48091136 1 loop /snap/snap-store/582
loop17 7:17 0 311296 1 loop /snap/snapd-desktop-integration/49
loop18 7:18 0 438272 1 loop /snap/snapd-desktop-integration/57
loop19 7:19 0 253673472 1 loop /snap/firefox/2559
sda 8:0 0 26843545600 0 disk
├─sda1 8:1 0 1048576 0 part
├─sda2 8:2 0 537919488 0 part /boot/efi
└─sda3 8:3 0 26302480384 0 part /var/snap/firefox/common/host-hunspell
/
sr0 11:0 1 132950016 0 rom /media/sarthak/CDROM
sr1 11:1 1 1073741312 0 rom
sarthak@sarthak-virtual-machine:~$ tar -cvf myfile.tar myfile.txt
myfile.txt
sarthak@sarthak-virtual-machine:~$ tar -tvf myfile.tar
-rw-rw-r-- sarthak/sarthak 57 2023-04-13 15:49 myfile.txt
sarthak@sarthak-virtual-machine:~$ tar -xvf myfile.tar
myfile.txt
sarthak@sarthak-virtual-machine:~$ cat myfile.tar
myfile.txt000066400017500001750000000007114415753460012771 0ustar sarthaksarthakhey....how are you?
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~$ cat myfile.ta
```