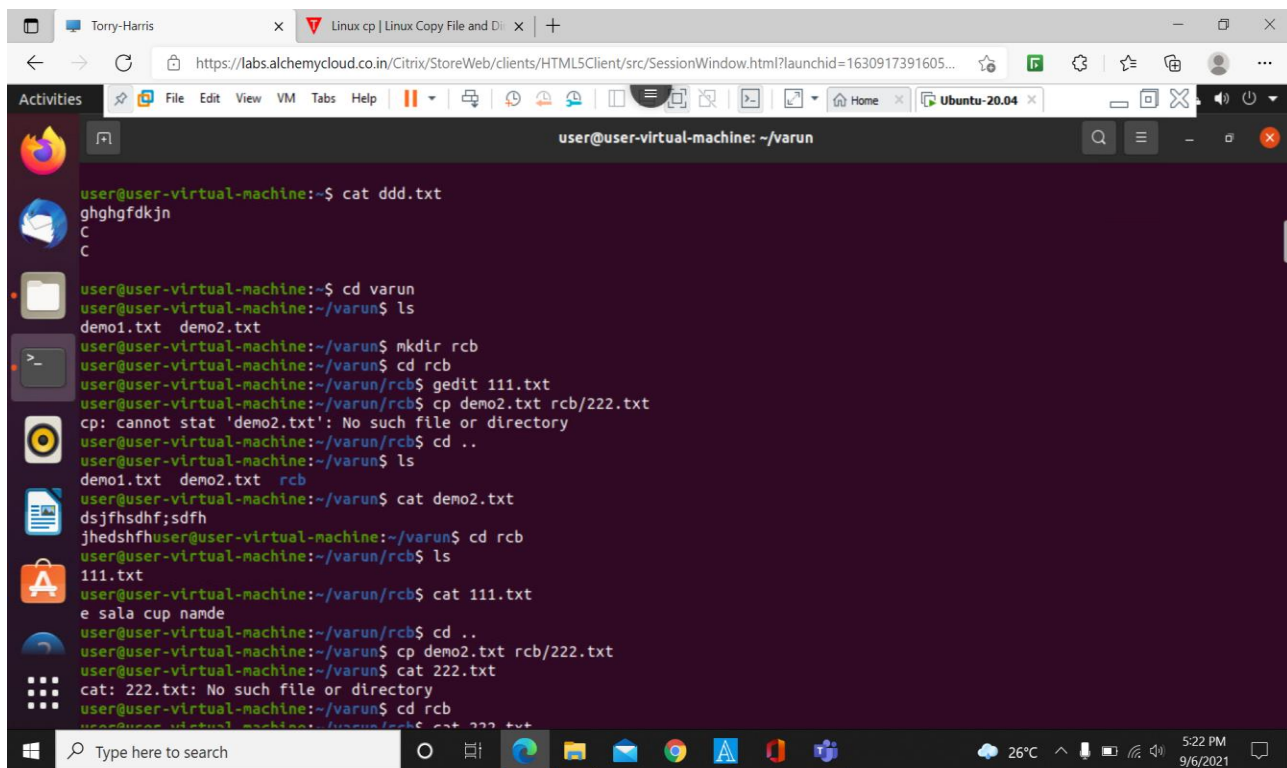


```
user@user-virtual-machine: ~/varun
user@user-virtual-machine:~$ vl vd.txt
Command 'vl' not found, but can be installed with:
sudo apt install atfs
user@user-virtual-machine:~$ vi vd.txt
user@user-virtual-machine:~$ vi dddd.txt
user@user-virtual-machine:~$ cd dddd.txt
bash: cd: dddd.txt: No such file or directory
user@user-virtual-machine:~$ vi dd.txt
user@user-virtual-machine:~$ vi ddd.txt
user@user-virtual-machine:~$ cat ddd.txt
ghghgfdkjin
C
C
user@user-virtual-machine:~$ printf ddd.txt
ddd.txtuser@user-virtual-machine:~$ cad ddd.txt
Command 'cad' not found, did you mean:
command '0ad' from snap 0ad (0.0.25b-alpha)
command 'card' from deb a2ps (1:4.14-5)
command 'ad' from deb netatalk (3.1.12-ds-4)
command 'car' from deb ucommon-utils (7.0.0-16ubuntu2)
command 'cat' from deb coreutils (8.30-3ubuntu2)
command 'dad' from deb debian-dad (1)
command 'cal' from deb bsdmainutils (11.1.2ubuntu3)
command 'lead' from deb gedit (3.12.0-1)
```



```
user@user-virtual-machine:~$ cat ddd.txt
ghghgfdkjin
C
C
user@user-virtual-machine:~$ cd varun
user@user-virtual-machine:~/varun$ ls
demo1.txt demo2.txt
user@user-virtual-machine:~/varun$ mkdir rcb
user@user-virtual-machine:~/varun$ cd rcb
user@user-virtual-machine:~/varun/rcb$ gedit 111.txt
user@user-virtual-machine:~/varun/rcb$ cp demo2.txt rcb/222.txt
cp: cannot stat 'demo2.txt': No such file or directory
user@user-virtual-machine:~/varun/rcb$ cd ..
user@user-virtual-machine:~/varun$ ls
demo1.txt demo2.txt rcb
user@user-virtual-machine:~/varun$ cat demo2.txt
dsjfhdsfh;sdfh
jhedshfuser@user-virtual-machine:~/varun$ cd rcb
user@user-virtual-machine:~/varun/rcb$ ls
111.txt
user@user-virtual-machine:~/varun/rcb$ cat 111.txt
e sala cup namde
user@user-virtual-machine:~/varun/rcb$ cd ..
user@user-virtual-machine:~/varun$ cp demo2.txt rcb/222.txt
user@user-virtual-machine:~/varun$ cat 222.txt
cat: 222.txt: No such file or directory
user@user-virtual-machine:~/varun$ cd rcb
user@user-virtual-machine:~/varun/rcb$ cat 222.txt
```

```
user@user-virtual-machine: ~/.varun
cat: 222.txt: No such file or directory
user@user-virtual-machine: ~/.varun$ cd rcb
user@user-virtual-machine: ~/.varun/rcb$ cat 222.txt
dsjfhdsfh;sdfh
jhedshfhuser@user-virtual-machine:~/.varun/rcb$ cat 111.txt
e sala cup namde
user@user-virtual-machine:~/.varun/rcb$ ls
111.txt 222.txt
user@user-virtual-machine:~/.varun/rcb$ ls -l
111.txt
222.txt
user@user-virtual-machine:~/.varun/rcb$ ls -l
total 8
-rw-rw-r-- 1 user user 17 Sep 3 15:42 111.txt
-rw-rw-r-- 1 user user 23 Sep 3 15:46 222.txt
user@user-virtual-machine:~/.varun/rcb$ cp 222.txt varun/333.txt
cp: cannot create regular file 'varun/333.txt': No such file or directory
user@user-virtual-machine:~/.varun/rcb$ cd ..
user@user-virtual-machine:~/.varun$ ls
demo1.txt demo2.txt rcb
user@user-virtual-machine:~/.varun$ cat 222.txt
cat: 222.txt: No such file or directory
user@user-virtual-machine:~/.varun$ cd rcb
user@user-virtual-machine:~/.varun/rcb$ pwd
/home/user/varun/rcb
user@user-virtual-machine:~/.varun/rcb$ cp 222.txt rcb/varun\333.txt
cp: cannot create regular file 'rcb/varun\333.txt': No such file or directory
user@user-virtual-machine:~/.varun/rcb$ cd ..
user@user-virtual-machine:~/.varun$ ls
demo1.txt demo2.txt rcb
user@user-virtual-machine:~/.varun$ cd rcb
```

```
user@user-virtual-machine: ~/.varun
user@user-virtual-machine:~/.varun/rcb$ ls
111.txt 222.txt rcbvarun333.txt
user@user-virtual-machine:~/.varun/rcb$ cat 333.txt
cat: 333.txt: No such file or directory
user@user-virtual-machine:~/.varun/rcb$ rcbvarun333.txt
rcbvarun333.txt: command not found
user@user-virtual-machine:~/.varun/rcb$ ls
111.txt 222.txt rcbvarun333.txt
user@user-virtual-machine:~/.varun/rcb$ cat rcbvarun333.txt
dsjfhdsfh;sdfh
jhedshfhuser@user-virtual-machine:~/.varun/rcb$ del rcbvarun333.txt
Command 'del' not found, did you mean:

command 'den' from snap den (1.2.0-0)
command 'el' from deb oneliner-el (0.3.6-8)
command 'hdel' from deb hfsutils (3.2.6-14)
command 'delp' from deb fp-utils-3.0.4 (3.0.4+dfsg-23)
command 'qdel' from deb gridengine-client (8.1.9+dfsg-9build2)
command 'qdel' from deb slurm-wlm-torque (19.05.5-1)
command 'deal' from deb deal (3.1.9-12)
command 'dll' from deb brickos (0.9.0.dfsg-12.2)
command 'dell' from deb bind9-dnsutils (1:9.16.1-0ubuntu2.8)
command 'delv' from deb go-dep (0.5.4-3)
command 'dex' from deb dex (0.8.0-2)
command 'ndel' from deb mtools (4.0.24-1)
command 'wdel' from deb wput (0.6.2+git20130413-8)
command 'tel' from deb orville-write (2.55-3build1)

See 'man info --pager' for additional versions.
```

```

user@user-virtual-machine: ~/varun
user@user-virtual-machine:~/varun/rcb$ cp rcbvarun333.txt varun/333.txt
cp: cannot create regular file 'varun/333.txt': No such file or directory
user@user-virtual-machine:~/varun/rcb$ cp rcbvarun333.txt rcb/varun/333.txt
cp: cannot create regular file 'rcb/varun/333.txt': No such file or directory
user@user-virtual-machine:~/varun/rcb$ ls
111.txt 222.txt rcbvarun333.txt
user@user-virtual-machine:~/varun/rcb$ rm rcbvarun333.txt
rm: cannot remove 'rcbvarun333.txt': No such file or directory
user@user-virtual-machine:~/varun/rcb$ rm rcbvarun333.txt
user@user-virtual-machine:~/varun/rcb$ ls
111.txt 222.txt
user@user-virtual-machine:~/varun/rcb$ cd ..
user@user-virtual-machine:~/varun$ cp rcb/222.txt 333.txt
user@user-virtual-machine:~/varun$ ls
333.txt demo1.txt demo2.txt rcb
user@user-virtual-machine:~/varun$ cat 333.txt
dsjfhdsdhf;sdfh
user@user-virtual-machine:~/varun$ mkdir torry
user@user-virtual-machine:~/varun$ cd torry
user@user-virtual-machine:~/varun/torry$ gedit f1.txt
user@user-virtual-machine:~/varun/torry$ rem f1.txt

Command 'rem' not found, but can be installed with:

sudo snap install rem # version 0.14.0, or
sudo apt install remind # version 03.03.00-1

See 'snap info rem' for additional versions.

```

```

See 'snap info rem' for additional versions.
user@user-virtual-machine:~/varun/torry$ rm f1.txt
user@user-virtual-machine:~/varun/torry$ ls
user@user-virtual-machine:~/varun/torry$ cat > f1.txt
rcb
vk
abd
dp
maxy
user@user-virtual-machine:~/varun/torry$ cat f1
cat: f1: No such file or directory
user@user-virtual-machine:~/varun/torry$ cat f1.txt
rcb
vk
abd
dp
maxy
user@user-virtual-machine:~/varun/torry$ cd ..
user@user-virtual-machine:~/varun$ cd ..
user@user-virtual-machine:~/varun$ cat > ./varun/torry/f2.txt
just nothing here
user@user-virtual-machine:~/varun$ rm ./varun/torry/f2.txt
user@user-virtual-machine:~/varun$ cd varun
user@user-virtual-machine:~/varun$ cd torry
user@user-virtual-machine:~/varun/torry$ cat f2.txt
cat: f2.txt: No such file or directory
user@user-virtual-machine:~/varun/torry$ mkdir harris
user@user-virtual-machine:~/varun/torry$ cd harris

```

```

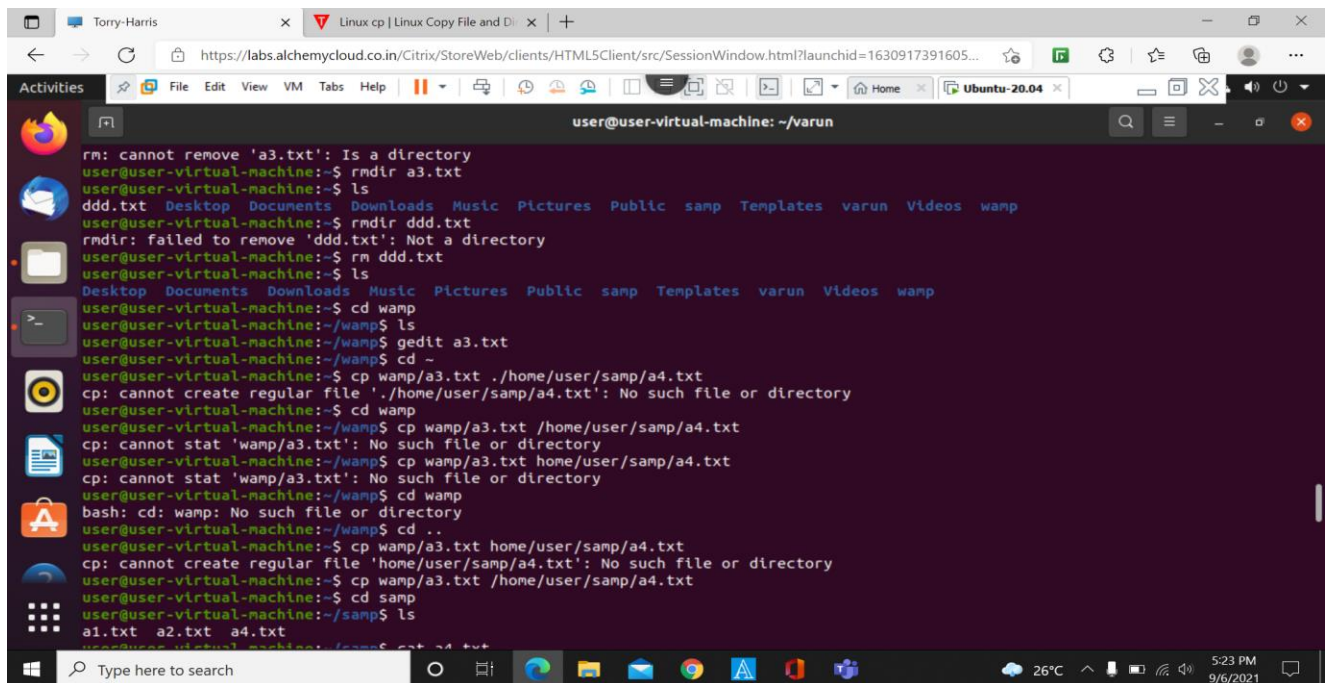
user@user-virtual-machine: ~/varun
user@user-virtual-machine:~/varun$ cd -
user@user-virtual-machine:~/varun$ cat > ./varun/torry/harris/f2.txt
user@user-virtual-machine:~/varun$ cd torry
bash: cd: torry: No such file or directory
user@user-virtual-machine:~/varun$ cd varun
user@user-virtual-machine:~/varun$ cd torry
user@user-virtual-machine:~/varun/torry$ cd harris
user@user-virtual-machine:~/varun/torry/harris$ cat f2.txt
user@user-virtual-machine:~/varun/torry/harris$ gedit f2.txt
user@user-virtual-machine:~/varun/torry/harris$ cat f2.txt
nothing here
user@user-virtual-machine:~/varun/torry/harris$ cd -
user@user-virtual-machine:~/varun$ pwd
/home/user
user@user-virtual-machine:~/varun$ cat > ./varun/torry/harris/f2.txt
user@user-virtual-machine:~/varun$ cat f2.txt
cat: f2.txt: No such file or directory
user@user-virtual-machine:~/varun$ cd varun
user@user-virtual-machine:~/varun$ cd torry
user@user-virtual-machine:~/varun/torry$ cd harris
user@user-virtual-machine:~/varun/torry/harris$ cat f2.txt
user@user-virtual-machine:~/varun/torry/harris$ gedit f2.txt
user@user-virtual-machine:~/varun/torry/harris$ cat f2.txt
nothing here
user@user-virtual-machine:~/varun/torry/harris$ ls
f2.txt
user@user-virtual-machine:~/varun/torry/harris$ cat varun/torry/harris/f2.txt
cat: varun/torry/harris/f2.txt: No such file or directory

```

```

command 'cdw' from deb cdw (0.8.1-1build4)
Try: sudo apt install <deb name>
user@user-virtual-machine:~/varun/torry/harris$ cd -
user@user-virtual-machine:~/varun$ cat varun/torry/harris/f2.txt
nothing here
user@user-virtual-machine:~/varun$ cat varun/torry/f2.txt
nothing here
move on
user@user-virtual-machine:~/varun$ cat home/user/varun/torry/f2.txt
cat: home/user/varun/torry/f2.txt: No such file or directory
user@user-virtual-machine:~/varun$ cat /home/user/varun/torry/f2.txt
nothing here
move on
user@user-virtual-machine:~/varun$ cat /home/user/varun/torry/harris/f2.txt
nothing here
user@user-virtual-machine:~/varun$ mkdir samp
user@user-virtual-machine:~/varun$ cd samp
user@user-virtual-machine:~/samp$ gedit a1.txt
user@user-virtual-machine:~/samp$ gedit a2.txt
user@user-virtual-machine:~/samp$ ls
a1.txt a2.txt
user@user-virtual-machine:~/samp$ cd -
user@user-virtual-machine:~/varun$ mkdir wamp a3.txt
user@user-virtual-machine:~/varun$ ls
a3.txt ddd.txt Desktop Documents Downloads Music Pictures Public samp Templates varun Videos wamp

```

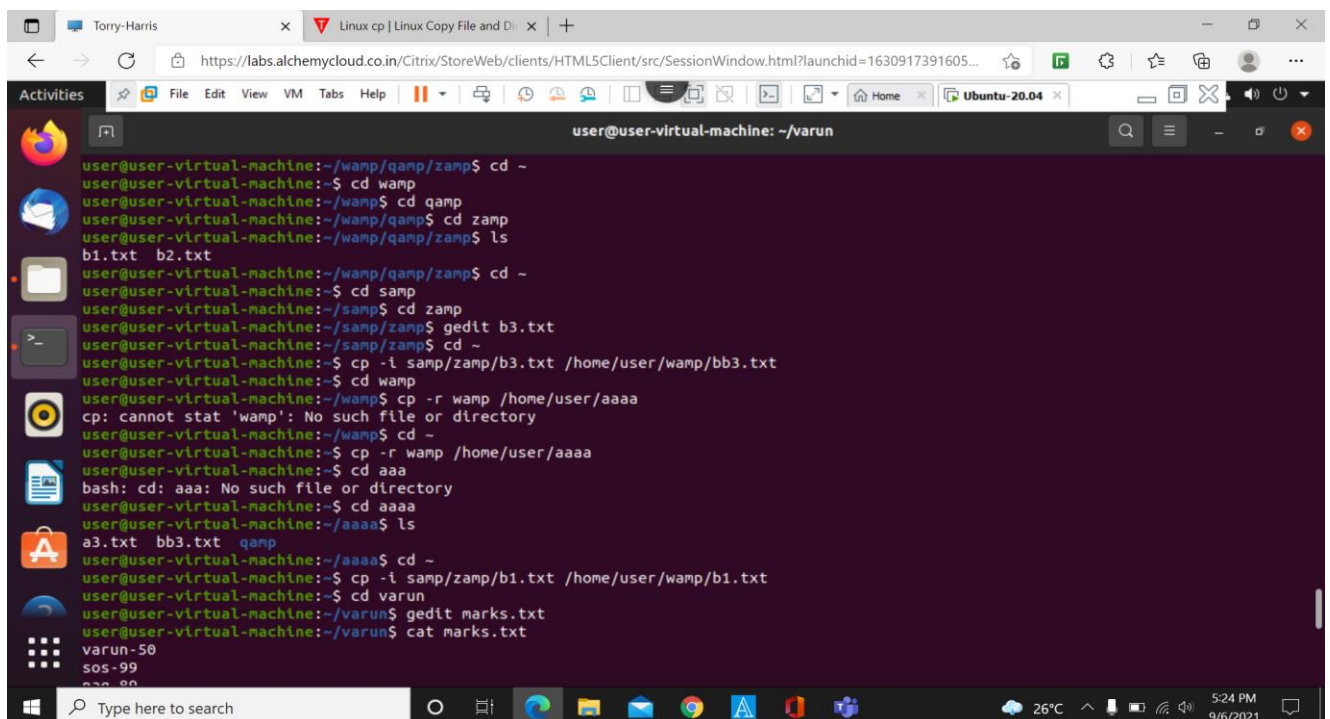



The screenshot shows a terminal window titled 'user@user-virtual-machine: ~/varun'. The user is attempting to remove files and directories. The following commands and their outputs are shown:

```

rm: cannot remove 'a3.txt': Is a directory
user@user-virtual-machine:~$ rmdir a3.txt
user@user-virtual-machine:~$ ls
ddd.txt Desktop Documents Downloads Music Pictures Public samp Templates varun Videos wamp
user@user-virtual-machine:~$ rmdir ddd.txt
rmdir: failed to remove 'ddd.txt': Not a directory
user@user-virtual-machine:~$ rm ddd.txt
user@user-virtual-machine:~$ ls
Desktop Documents Downloads Music Pictures Public samp Templates varun Videos wamp
user@user-virtual-machine:~$ cd wamp
user@user-virtual-machine:~/wamp$ ls
user@user-virtual-machine:~/wamp$ gedit a3.txt
user@user-virtual-machine:~/wamp$ cd ~
user@user-virtual-machine:~$ cp wamp/a3.txt ./home/user/samp/a4.txt
cp: cannot create regular file './home/user/samp/a4.txt': No such file or directory
user@user-virtual-machine:~$ cd wamp
user@user-virtual-machine:~/wamp$ cp wamp/a3.txt /home/user/samp/a4.txt
cp: cannot stat 'wamp/a3.txt': No such file or directory
user@user-virtual-machine:~/wamp$ cp wamp/a3.txt home/user/samp/a4.txt
cp: cannot stat 'wamp/a3.txt': No such file or directory
user@user-virtual-machine:~/wamp$ cd wamp
bash: cd: wamp: No such file or directory
user@user-virtual-machine:~/wamp$ cd ..
user@user-virtual-machine:~$ cp wamp/a3.txt home/user/samp/a4.txt
cp: cannot create regular file 'home/user/samp/a4.txt': No such file or directory
user@user-virtual-machine:~$ cp wamp/a3.txt /home/user/samp/a4.txt
user@user-virtual-machine:~$ cd samp
user@user-virtual-machine:~/samp$ ls
a1.txt a2.txt a4.txt

```

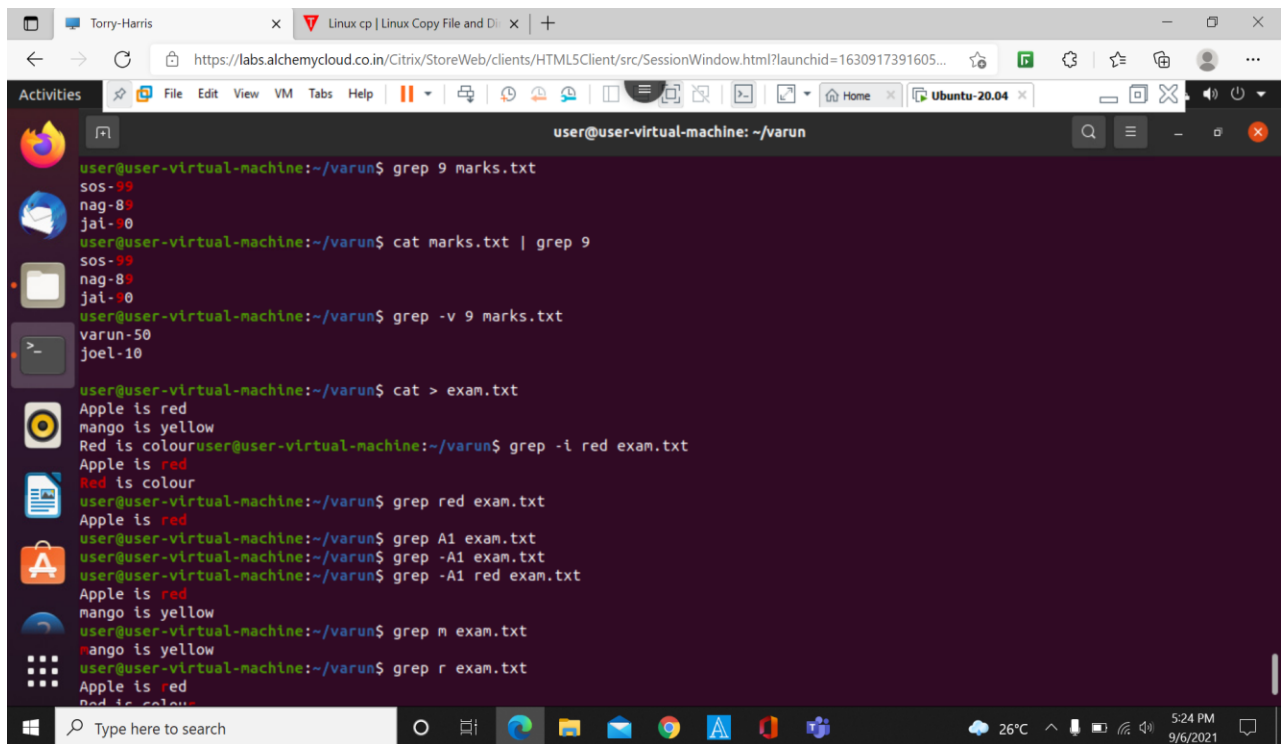


The screenshot shows a terminal window titled 'user@user-virtual-machine: ~/varun'. The user is navigating through directories and attempting to create files. The following commands and their outputs are shown:

```

user@user-virtual-machine:~/wamp/qamp/zamp$ cd ~
user@user-virtual-machine:~$ cd wamp
user@user-virtual-machine:~/wamp$ cd qamp
user@user-virtual-machine:~/wamp/qamp$ cd zamp
user@user-virtual-machine:~/wamp/qamp/zamp$ ls
b1.txt b2.txt
user@user-virtual-machine:~/wamp/qamp/zamp$ cd ~
user@user-virtual-machine:~$ cd samp
user@user-virtual-machine:~/samp$ cd zamp
user@user-virtual-machine:~/samp/zamp$ gedit b3.txt
user@user-virtual-machine:~/samp/zamp$ cd ~
user@user-virtual-machine:~$ cp -i samp/zamp/b3.txt /home/user/wamp/bb3.txt
user@user-virtual-machine:~$ cd wamp
user@user-virtual-machine:~/wamp$ cp -r wamp /home/user/aaaa
cp: cannot stat 'wamp': No such file or directory
user@user-virtual-machine:~/wamp$ cd ~
user@user-virtual-machine:~$ cp -r wamp /home/user/aaaa
user@user-virtual-machine:~$ cd aaa
bash: cd: aaa: No such file or directory
user@user-virtual-machine:~$ cd aaaa
user@user-virtual-machine:~/aaaa$ ls
a3.txt bb3.txt qamp
user@user-virtual-machine:~/aaaa$ cd ~
user@user-virtual-machine:~$ cp -i samp/zamp/b1.txt /home/user/wamp/b1.txt
user@user-virtual-machine:~$ cd varun
user@user-virtual-machine:~/varun$ gedit marks.txt
user@user-virtual-machine:~/varun$ cat marks.txt
varun-50
sos-99
aaa-88

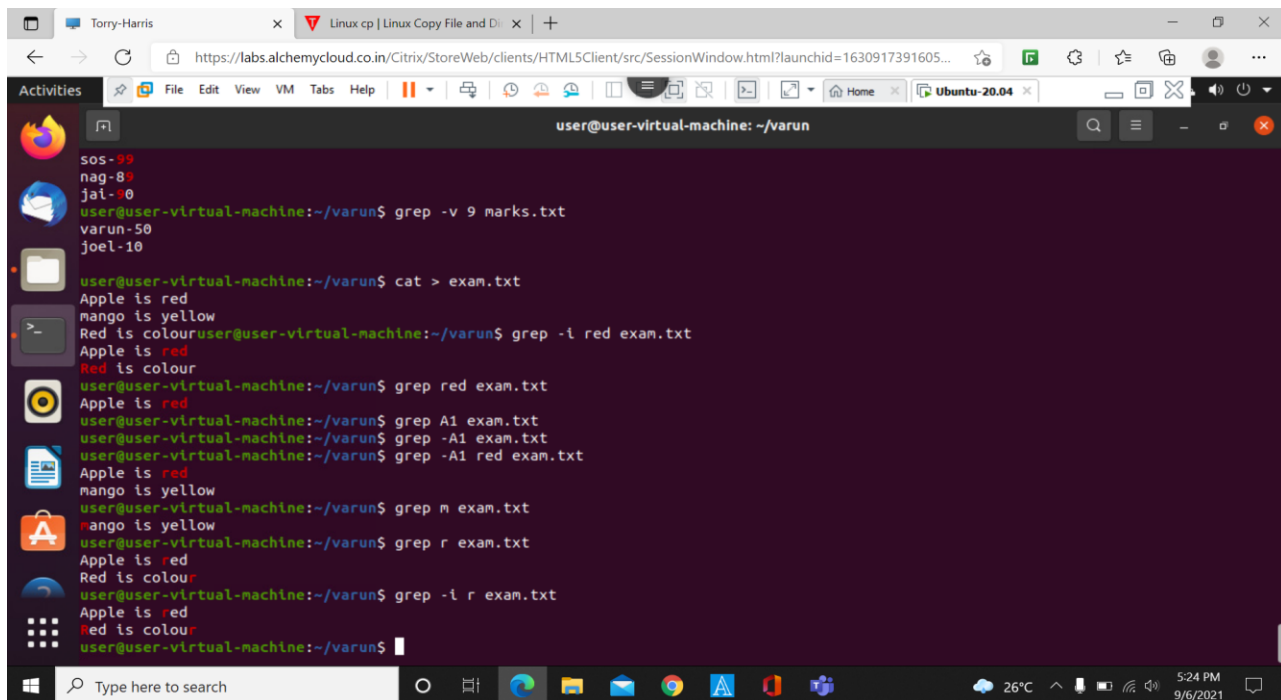
```



The screenshot shows a terminal window titled "user@user-virtual-machine: ~/varun". The terminal displays the following commands and output:

```
user@user-virtual-machine:~/varun$ grep 9 marks.txt
sos-99
nag-89
jai-90
user@user-virtual-machine:~/varun$ cat marks.txt | grep 9
sos-99
nag-89
jai-90
user@user-virtual-machine:~/varun$ grep -v 9 marks.txt
varun-50
joel-10
user@user-virtual-machine:~/varun$ cat > exam.txt
Apple is red
mango is yellow
Red is colour
user@user-virtual-machine:~/varun$ grep -i red exam.txt
Apple is red
Red is colour
user@user-virtual-machine:~/varun$ grep red exam.txt
Apple is red
user@user-virtual-machine:~/varun$ grep A1 exam.txt
user@user-virtual-machine:~/varun$ grep -A1 exam.txt
user@user-virtual-machine:~/varun$ grep -A1 red exam.txt
Apple is red
mango is yellow
user@user-virtual-machine:~/varun$ grep m exam.txt
mango is yellow
user@user-virtual-machine:~/varun$ grep r exam.txt
Apple is red
Red is colour
```

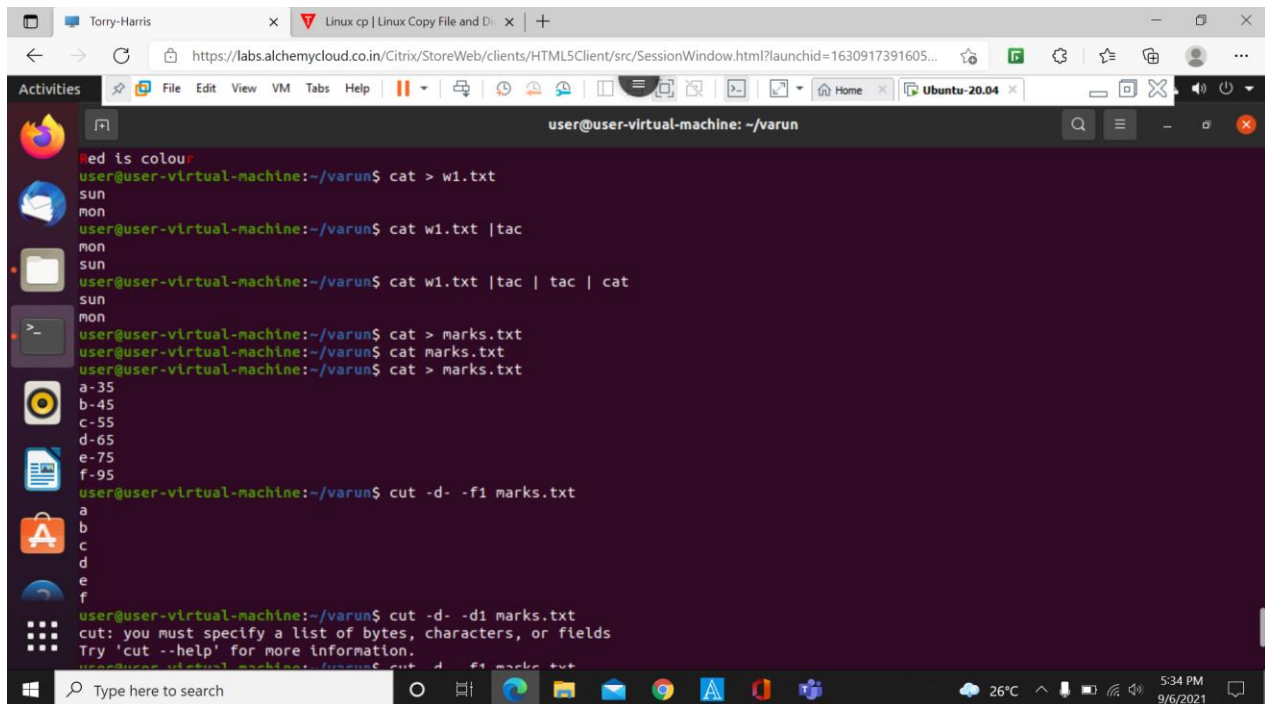
The terminal window is part of a web-based interface, with a browser address bar showing a URL from labs.alchemycloud.co.in. The system tray at the bottom indicates the date and time as 5:24 PM on 9/6/2021.



The screenshot shows the same terminal window as the previous one, with the following commands and output:

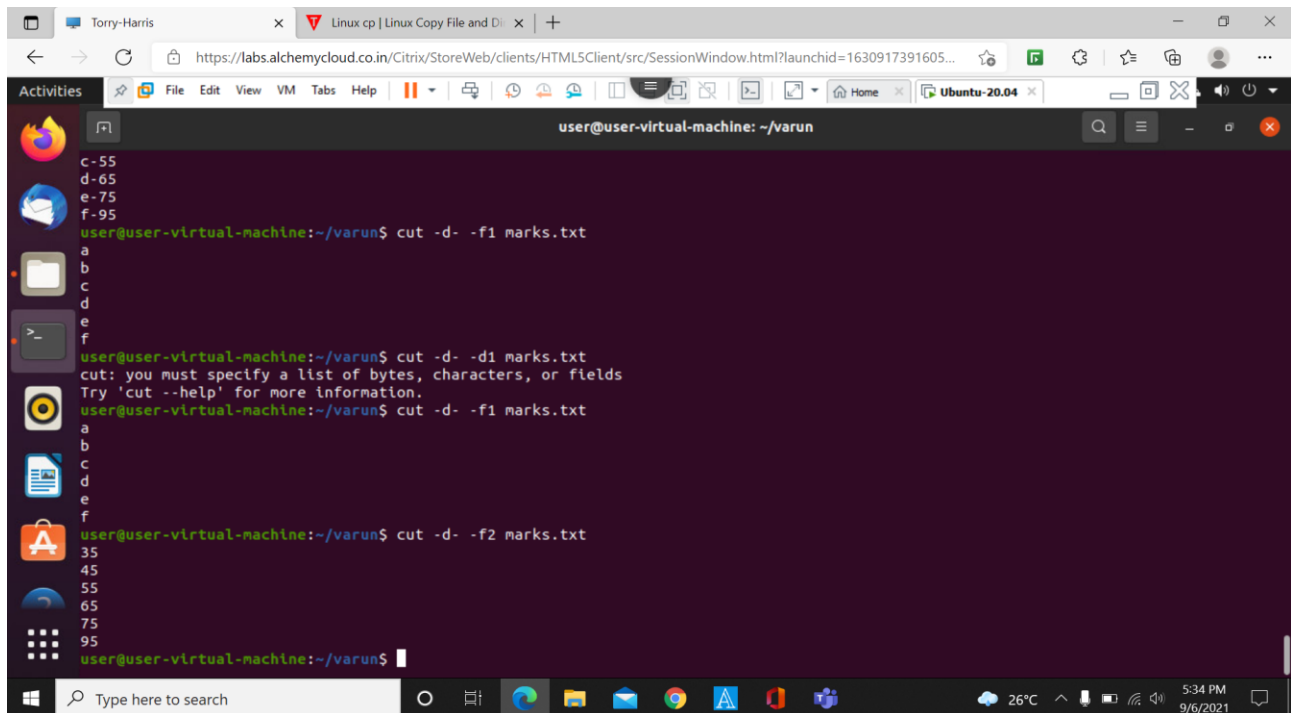
```
user@user-virtual-machine:~/varun$ grep -v 9 marks.txt
varun-50
joel-10
user@user-virtual-machine:~/varun$ cat > exam.txt
Apple is red
mango is yellow
Red is colour
user@user-virtual-machine:~/varun$ grep -i red exam.txt
Apple is red
Red is colour
user@user-virtual-machine:~/varun$ grep red exam.txt
Apple is red
user@user-virtual-machine:~/varun$ grep A1 exam.txt
user@user-virtual-machine:~/varun$ grep -A1 exam.txt
user@user-virtual-machine:~/varun$ grep -A1 red exam.txt
Apple is red
mango is yellow
user@user-virtual-machine:~/varun$ grep m exam.txt
mango is yellow
user@user-virtual-machine:~/varun$ grep r exam.txt
Apple is red
Red is colour
user@user-virtual-machine:~/varun$ grep -i r exam.txt
Apple is red
Red is colour
user@user-virtual-machine:~/varun$
```

The terminal window is part of a web-based interface, with a browser address bar showing a URL from labs.alchemycloud.co.in. The system tray at the bottom indicates the date and time as 5:24 PM on 9/6/2021.



This screenshot shows a terminal window on a virtual machine named 'user@user-virtual-machine' with the directory set to '~/.varun'. The user has created a file 'w1.txt' containing the text 'Red is colour', 'sun', and 'mon'. They then use 'cat w1.txt | tac' to reverse the lines, resulting in 'mon', 'sun', and 'Red is colour'. Next, they create 'marks.txt' with a list of marks: 'a-35', 'b-45', 'c-55', 'd-65', 'e-75', and 'f-95'. They attempt to use 'cut -d- -f1 marks.txt' but receive an error: 'cut: you must specify a list of bytes, characters, or fields. Try 'cut --help' for more information.'

```
user@user-virtual-machine: ~/.varun
Red is colour
user@user-virtual-machine: ~/.varun$ cat > w1.txt
sun
mon
user@user-virtual-machine: ~/.varun$ cat w1.txt | tac
mon
sun
Red is colour
user@user-virtual-machine: ~/.varun$ cat w1.txt | tac | tac | cat
sun
mon
user@user-virtual-machine: ~/.varun$ cat > marks.txt
user@user-virtual-machine: ~/.varun$ cat marks.txt
a-35
b-45
c-55
d-65
e-75
f-95
user@user-virtual-machine: ~/.varun$ cut -d- -f1 marks.txt
a
b
c
d
e
f
user@user-virtual-machine: ~/.varun$ cut -d- -d1 marks.txt
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
```



This screenshot continues the terminal session. The user repeats the 'cut -d- -f1 marks.txt' command, which successfully outputs 'a', 'b', 'c', 'd', 'e', and 'f'. They then attempt 'cut -d- -d1 marks.txt' again, receiving the same error as before. Next, they run 'cut -d- -f1 marks.txt' again, which also outputs 'a' through 'f'. Finally, they run 'cut -d- -f2 marks.txt', which outputs the numerical values '35', '45', '55', '65', '75', and '95'.

```
user@user-virtual-machine: ~/.varun
c-55
d-65
e-75
f-95
user@user-virtual-machine: ~/.varun$ cut -d- -f1 marks.txt
a
b
c
d
e
f
user@user-virtual-machine: ~/.varun$ cut -d- -d1 marks.txt
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
user@user-virtual-machine: ~/.varun$ cut -d- -f1 marks.txt
a
b
c
d
e
f
user@user-virtual-machine: ~/.varun$ cut -d- -f2 marks.txt
35
45
55
65
75
95
user@user-virtual-machine: ~/.varun$
```