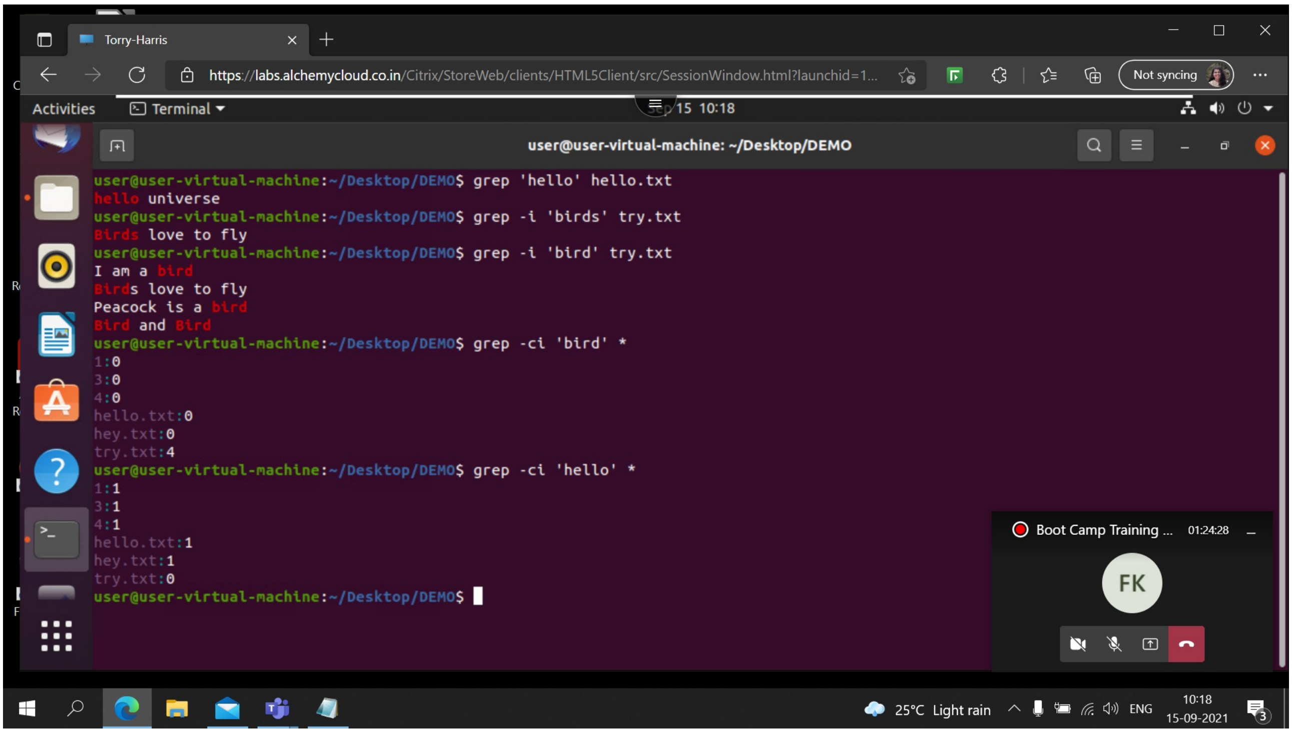
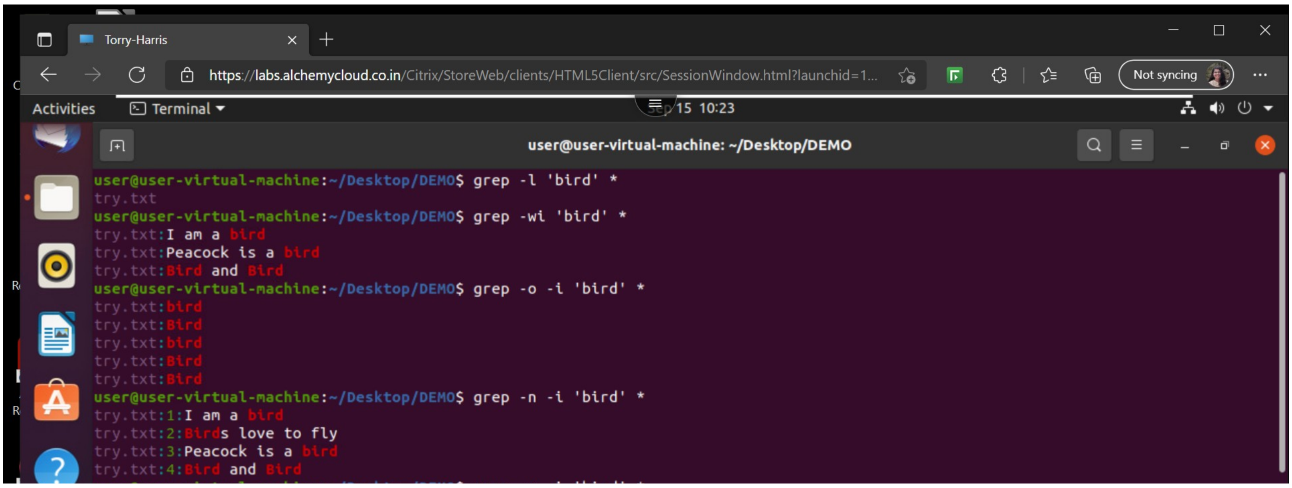
grep commands:
It is for pattern matching. Shows the lines from a file where the keyword is found
Syntax:grep 'keyword' filename
-i (ignores case)
-c (Counts matching pattern in the starting of lines)
-l (Prints the files name where the keyword is found)
-w (Does not consider substring)
-o (Prints only the pattern)
-n (Prints only the pattern along with line number)
-v (Prints the lines except that with that keyword)

'^keyword' : Searches for line starting from that keyword
'keyword$' : Searches for line ending from that keyword


Torry-Harris
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 10:18
user@user-virtual-machine: ~/Desktop/DEMO
Boot Camp Training ...
01:24:28
FK
25°C Light rain
ENG
10:18
15-09-2021

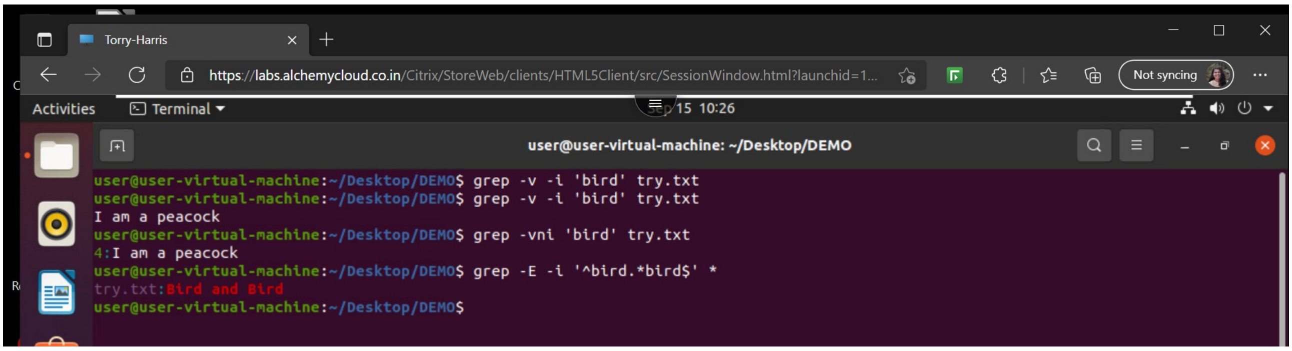
```
user@user-virtual-machine:~/Desktop/DEMO$ grep 'hello' hello.txt
hello universe
user@user-virtual-machine:~/Desktop/DEMO$ grep -i 'birds' try.txt
Birds love to fly
user@user-virtual-machine:~/Desktop/DEMO$ grep -i 'bird' try.txt
I am a bird
Birds love to fly
Peacock is a bird
Bird and Bird
user@user-virtual-machine:~/Desktop/DEMO$ grep -ci 'bird' *
1:0
3:0
4:0
hello.txt:0
hey.txt:0
try.txt:4
user@user-virtual-machine:~/Desktop/DEMO$ grep -ci 'hello' *
1:1
3:1
4:1
hello.txt:1
hey.txt:1
try.txt:0
user@user-virtual-machine:~/Desktop/DEMO$
```



Torry-Harris
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 10:23
user@user-virtual-machine: ~/Desktop/DEMO

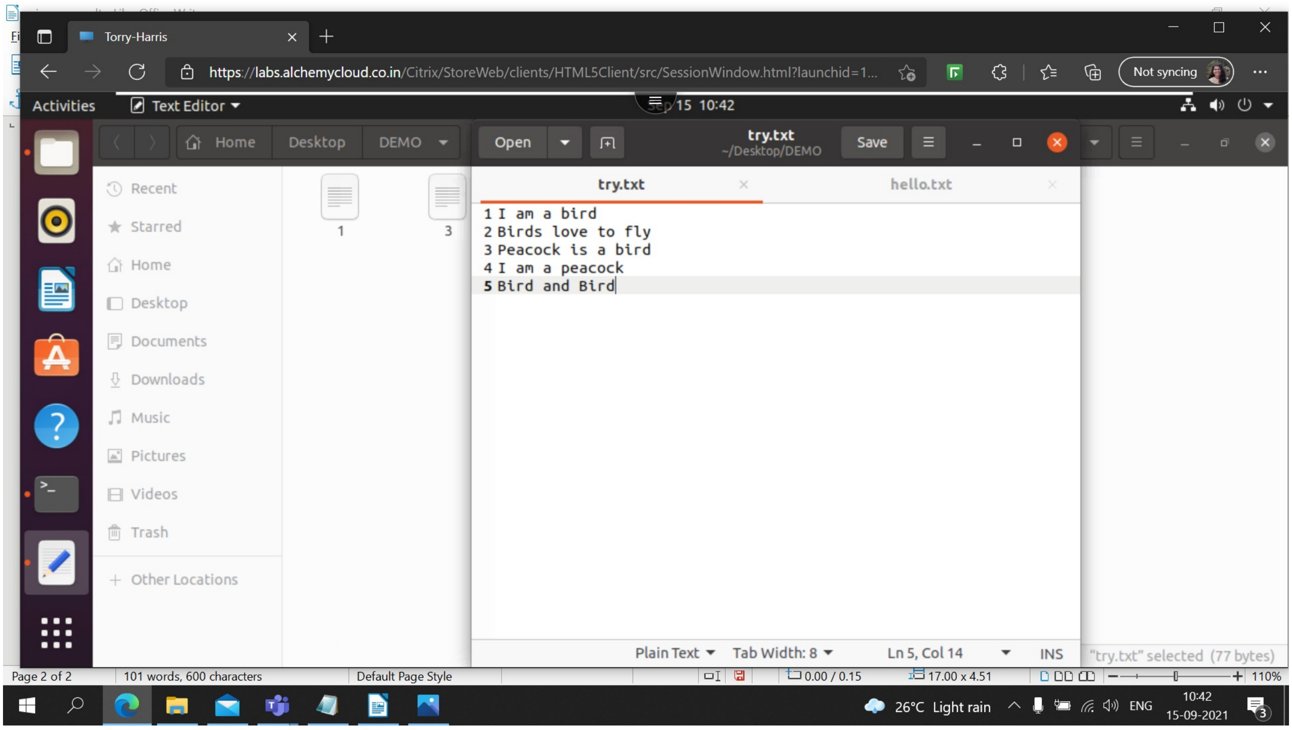
```
user@user-virtual-machine:~/Desktop/DEMO$ grep -l 'bird' *
try.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -wi 'bird' *
try.txt:I am a bird
try.txt:Peacock is a bird
try.txt:Bird and Bird
user@user-virtual-machine:~/Desktop/DEMO$ grep -o -i 'bird' *
try.txt:bird
try.txt:Bird
try.txt:bird
try.txt:Bird
try.txt:Bird
user@user-virtual-machine:~/Desktop/DEMO$ grep -n -i 'bird' *
try.txt:1:I am a bird
try.txt:2:Birds love to fly
try.txt:3:Peacock is a bird
try.txt:4:Bird and Bird
```

Assignment question: Find the line which has same ending and starting keyword



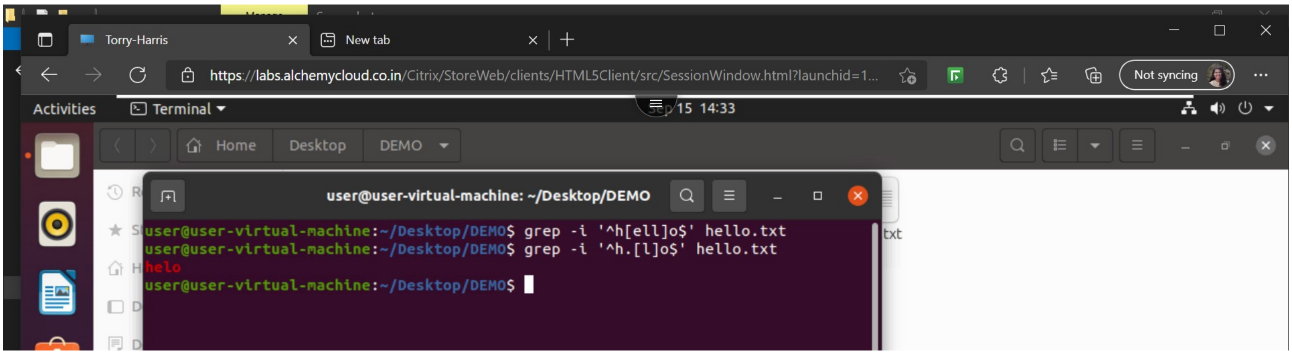
Torry-Harris
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 10:26
user@user-virtual-machine: ~/Desktop/DEMO

```
user@user-virtual-machine:~/Desktop/DEMO$ grep -v -i 'bird' try.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -v -i 'bird' try.txt
I am a peacock
user@user-virtual-machine:~/Desktop/DEMO$ grep -vni 'bird' try.txt
4:I am a peacock
user@user-virtual-machine:~/Desktop/DEMO$ grep -E -i '^bird.*bird$' *
try.txt:Bird and Bird
user@user-virtual-machine:~/Desktop/DEMO$
```

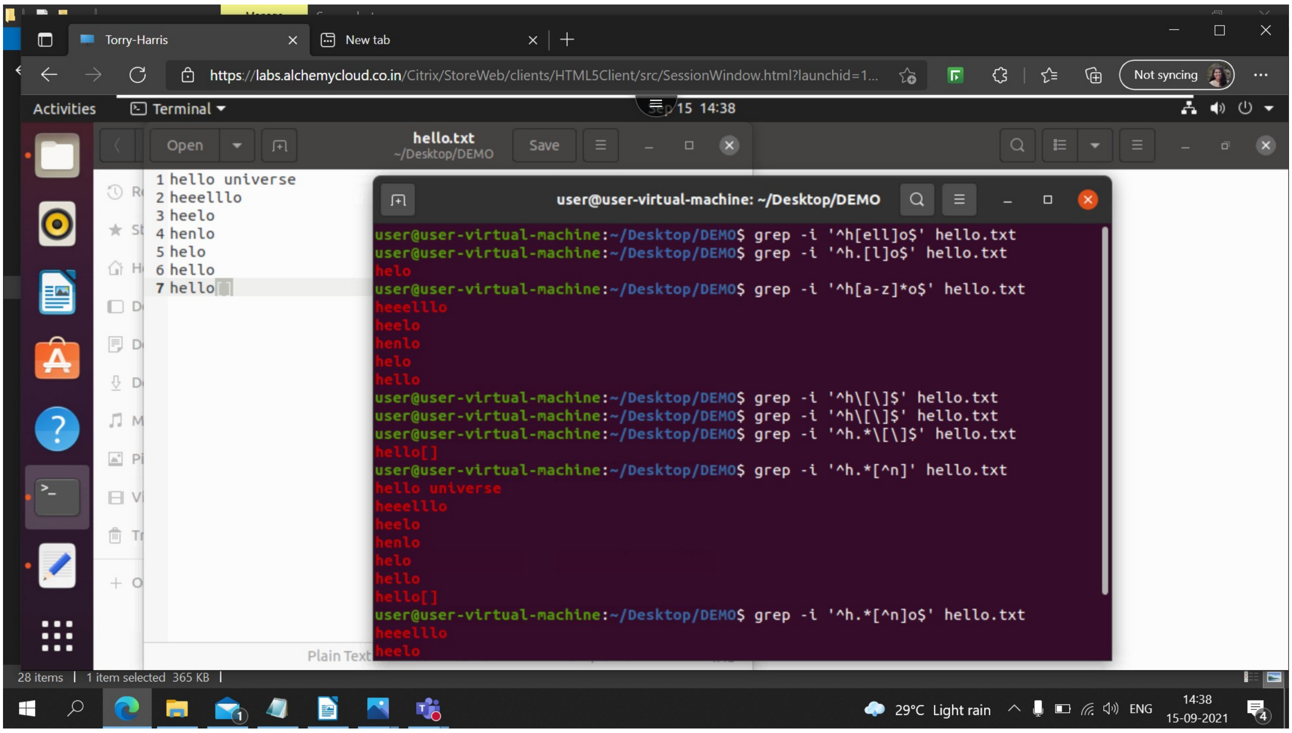


```
1 I am a bird
2 Birds love to fly
3 Peacock is a bird
4 I am a peacock
5 Bird and Bird
```

[ ]: Matches any one of a set characters
[ ] with hyphen: Matches any one of a range characters
^: The pattern following it must occur at the beginning of each line
^ with [ ] : The pattern must not contain any character in the set specified
$: The pattern preceding it must occur at the end of each line
. (dot): Matches any one character
\ (backslash): Ignores the special meaning of the character following it
*: zero or more occurrences of the previous character
(dot).*: Nothing or any numbers of characters.



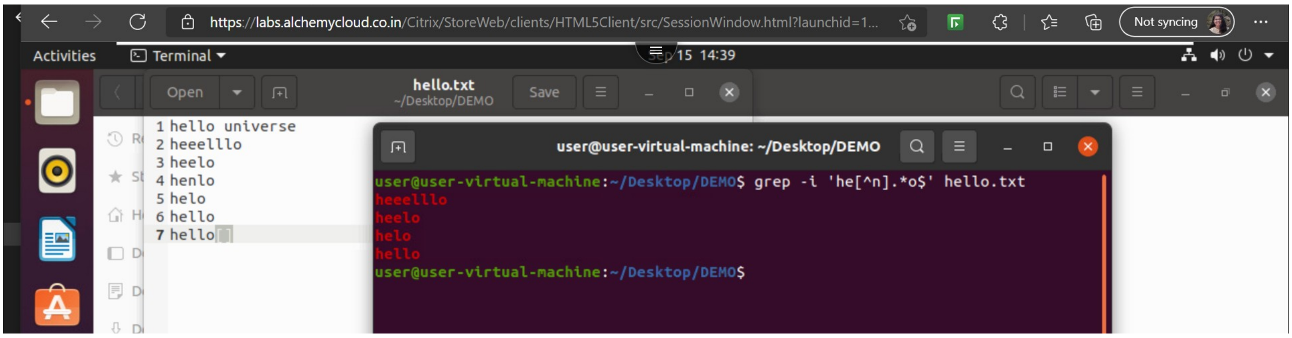
```
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h[ell]o$' hello.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h.[l]o$' hello.txt
helo
user@user-virtual-machine:~/Desktop/DEMO$
```



hello.txt
~/Desktop/DEMO

```
hello universe
heeelllo
heelo
henlo
helo
hello
hello[]
```

```
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h[ell]o$' hello.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h.[l]o$' hello.txt
helo
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h[a-z]*o$' hello.txt
heeelllo
heelo
henlo
helo
hello
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h\[\]$' hello.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h\[\]$' hello.txt
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h.*\[\]$' hello.txt
hello[]
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h.*[^n]' hello.txt
hello universe
heeelllo
heelo
henlo
helo
hello
hello[]
user@user-virtual-machine:~/Desktop/DEMO$ grep -i '^h.*[^n]o$' hello.txt
heeelllo
heelo
```



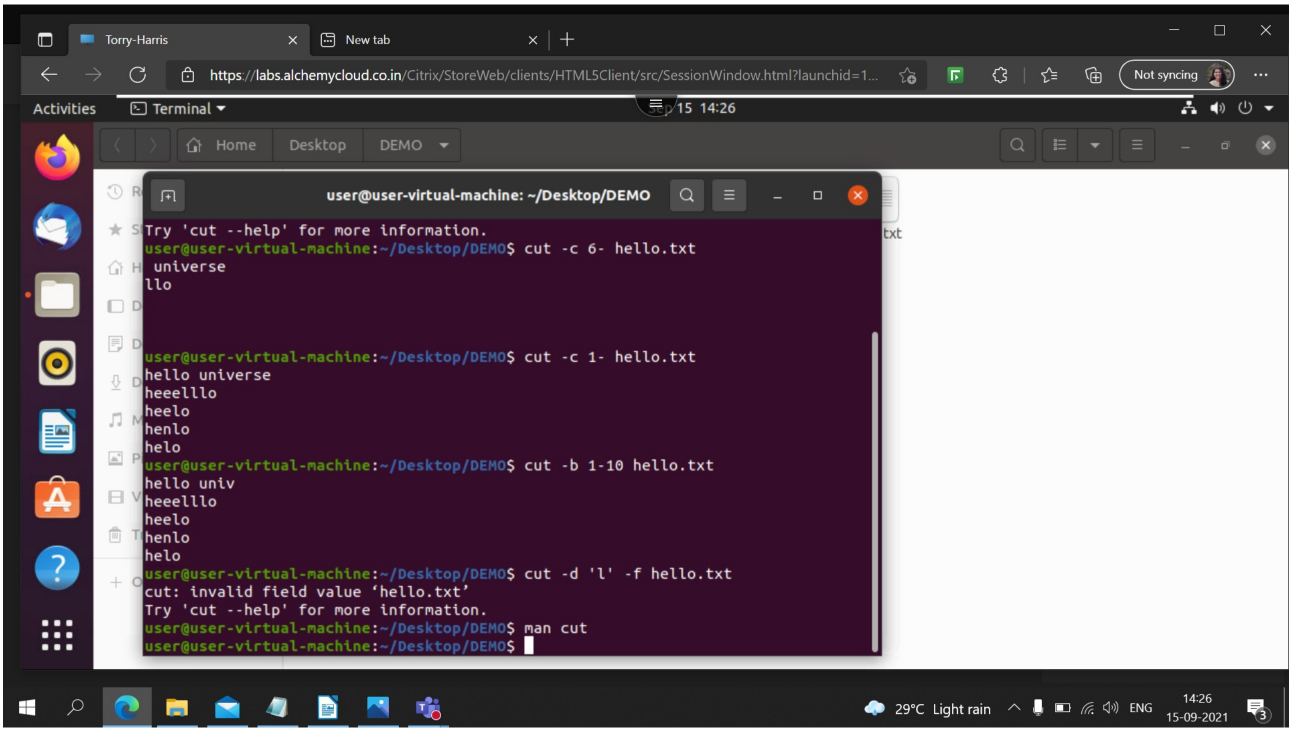
hello.txt
~/Desktop/DEMO

```
hello universe
heeelllo
heelo
henlo
helo
hello
hello[]
```

```
user@user-virtual-machine:~/Desktop/DEMO$ grep -i 'he[^n].*o$' hello.txt
heeelllo
heelo
helo
hello
user@user-virtual-machine:~/Desktop/DEMO$
```

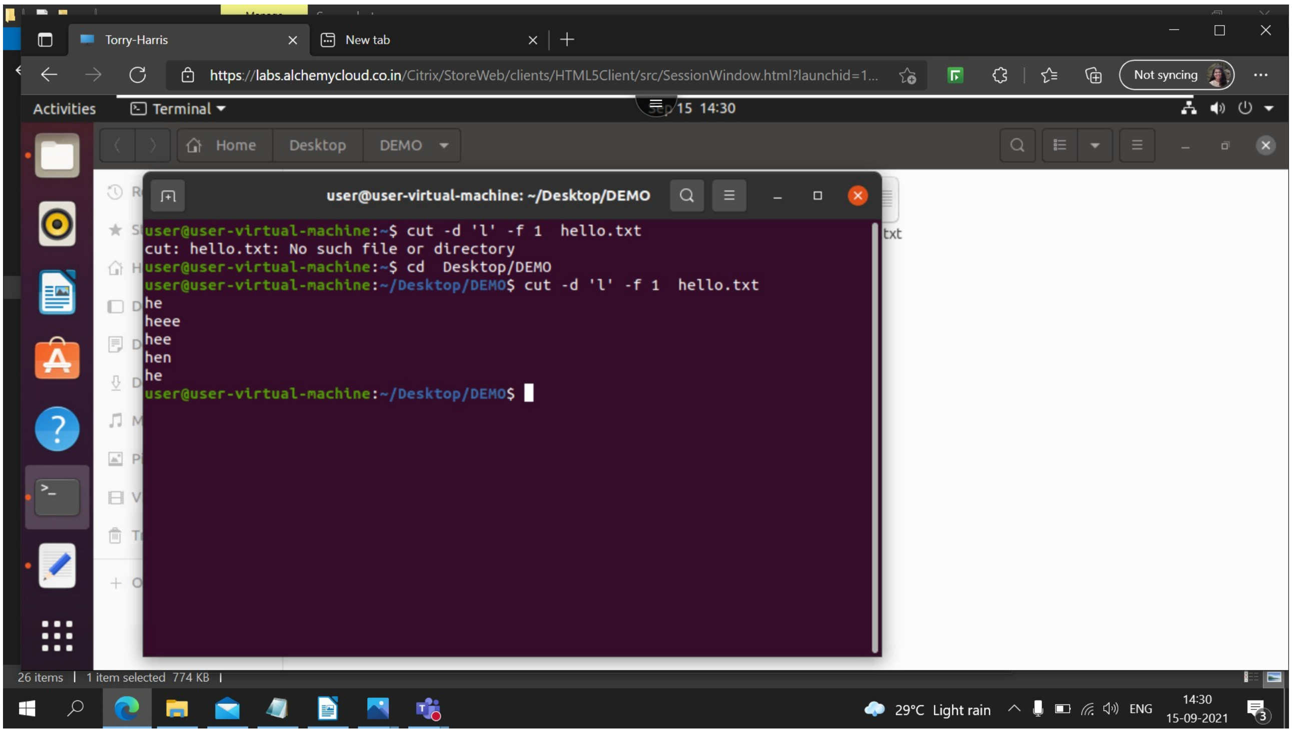
Cut commands…

-b	Select only the bytes from each line
-c	Select only the characters from each line
-d	use characters for delimiter
-f	select only these fields on each line
--complement	Select except the specified
--output-delimiter	Puts the new delimiter that is specified



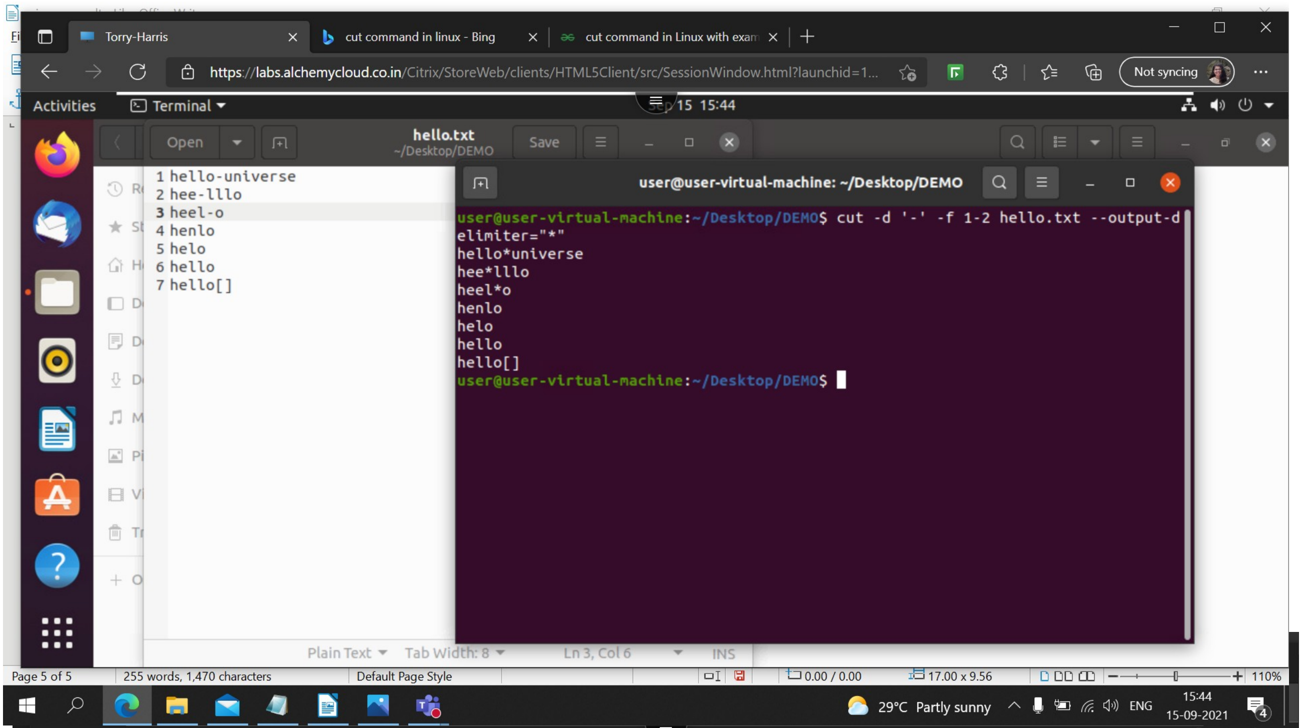
Torry-Harris
New tab
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 14:26
Home
Desktop
DEMO
user@user-virtual-machine: ~/Desktop/DEMO
29°C Light rain
ENG
14:26
15-09-2021

```
Try 'cut --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ cut -c 6- hello.txt
 universe
llo



user@user-virtual-machine:~/Desktop/DEMO$ cut -c 1- hello.txt
hello universe
heeelllo
heelo
henlo
helo
user@user-virtual-machine:~/Desktop/DEMO$ cut -b 1-10 hello.txt
hello univ
heeelllo
heelo
henlo
helo
user@user-virtual-machine:~/Desktop/DEMO$ cut -d 'l' -f hello.txt
cut: invalid field value ‘hello.txt’
Try 'cut --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ man cut
user@user-virtual-machine:~/Desktop/DEMO$ 
```



Torry-Harris
New tab
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 14:30
Home
Desktop
DEMO
user@user-virtual-machine: ~/Desktop/DEMO
26 items | 1 item selected 774 KB
29°C Light rain
ENG
14:30
15-09-2021

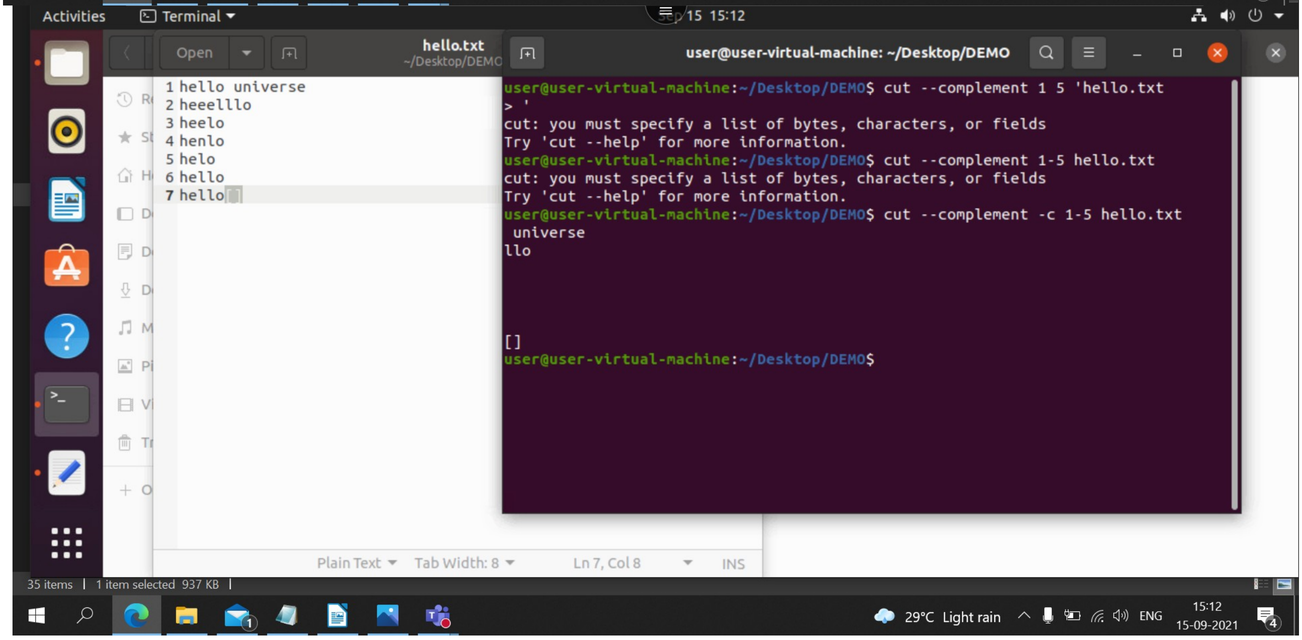
```
user@user-virtual-machine:~$ cut -d 'l' -f 1  hello.txt
cut: hello.txt: No such file or directory
user@user-virtual-machine:~$ cd  Desktop/DEMO
user@user-virtual-machine:~/Desktop/DEMO$ cut -d 'l' -f 1  hello.txt
he
heee
hee
hen
he
user@user-virtual-machine:~/Desktop/DEMO$ 
```



hello.txt
~/Desktop/DEMO

```
hello-universe
hee-lllo
heel-o
henlo
helo
hello
hello[]
```

```
user@user-virtual-machine:~/Desktop/DEMO$ cut -d '-' -f 1-2 hello.txt --output-d
elimiter="*"
hello*universe
hee*lllo
heel*o
henlo
helo
hello
hello[]
user@user-virtual-machine:~/Desktop/DEMO$
```



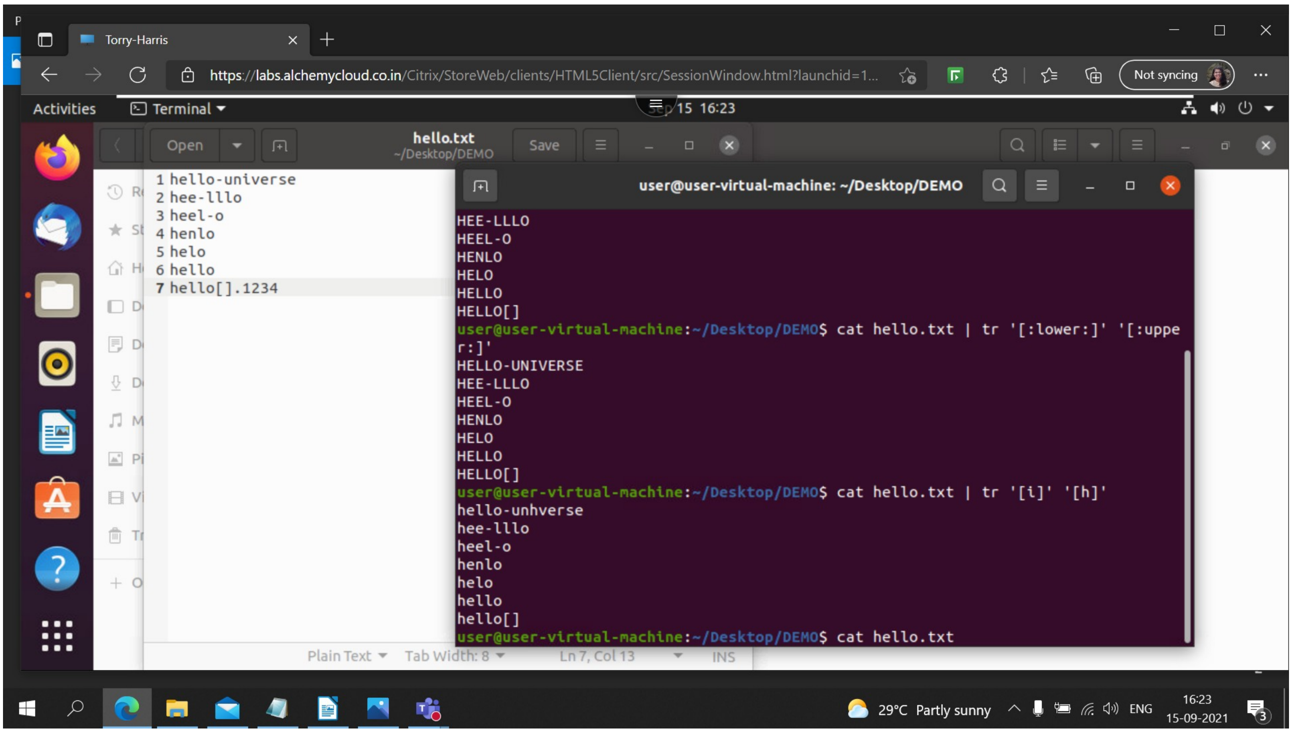
hello.txt
~/Desktop/DEMO

```
hello universe
heeellllo
heelo
henlo
helo
hello
hello[]
```

```
user@user-virtual-machine:~/Desktop/DEMO$ cut --complement 1 5 'hello.txt
> '
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ cut --complement 1-5 hello.txt
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ cut --complement -c 1-5 hello.txt
 universe
llo




[]
user@user-virtual-machine:~/Desktop/DEMO$
```

Few tr commands

Tr stands for transformation here are the examples

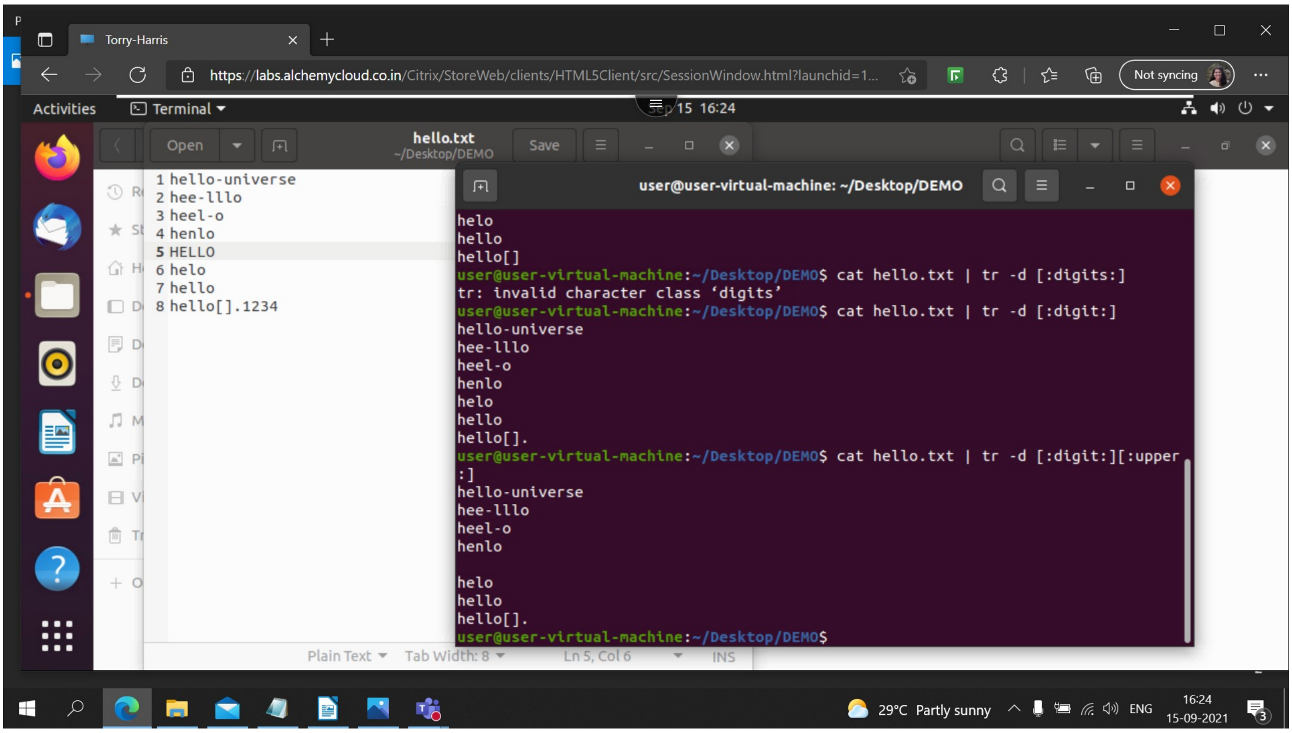


hello.txt
~/Desktop/DEMO

```
hello-universe
hee-lllo
heel-o
henlo
helo
hello
hello[].1234
```

user@user-virtual-machine: ~/Desktop/DEMO

```
HEE-LLLO
HEEL-O
HENLO
HELO
HELLO
HELLO[]
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr '[:lower:]' '[:uppe
r:]'
HELLO-UNIVERSE
HEE-LLLO
HEEL-O
HENLO
HELO
HELLO
HELLO[]
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr '[i]' '[h]'
hello-unhverse
hee-lllo
heel-o
henlo
helo
hello
hello[]
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt
```

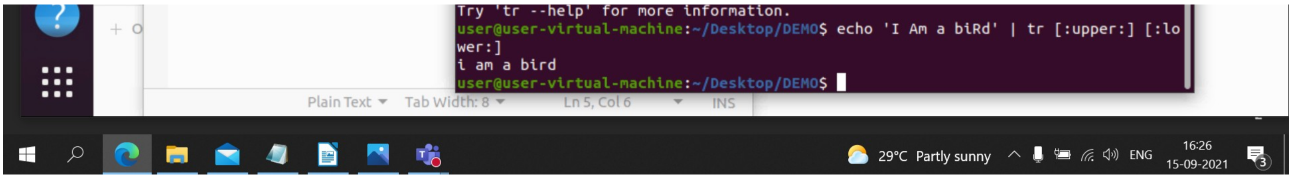


hello.txt
~/Desktop/DEMO

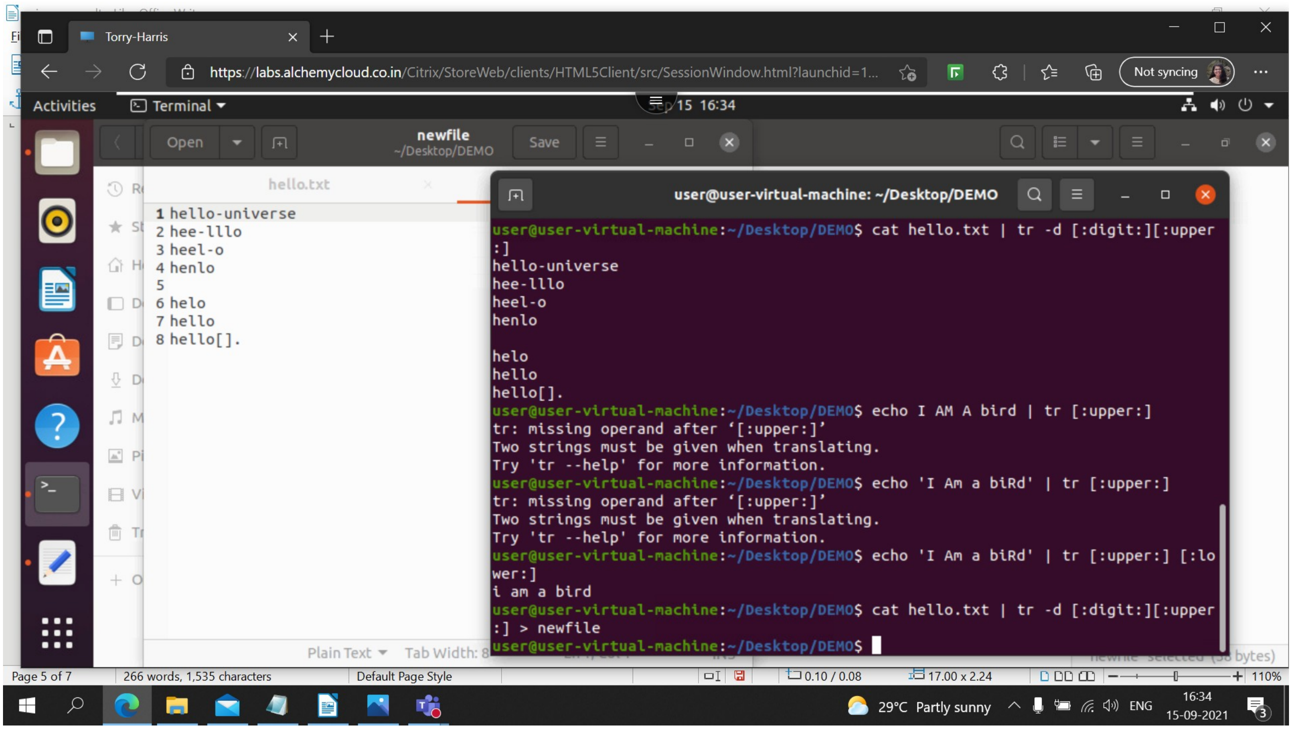
```
hello-universe
hee-lllo
heel-o
henlo
HELLO
helo
hello
hello[].1234
```

user@user-virtual-machine: ~/Desktop/DEMO

```
helo
hello
hello[]
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d [:digits:]
tr: invalid character class 'digits'
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d [:digit:]
hello-universe
hee-lllo
heel-o
henlo
helo
hello
hello[].
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d [:digit:][:upper
:]
hello-universe
hee-lllo
heel-o
henlo

helo
hello
hello[].
user@user-virtual-machine:~/Desktop/DEMO$
```



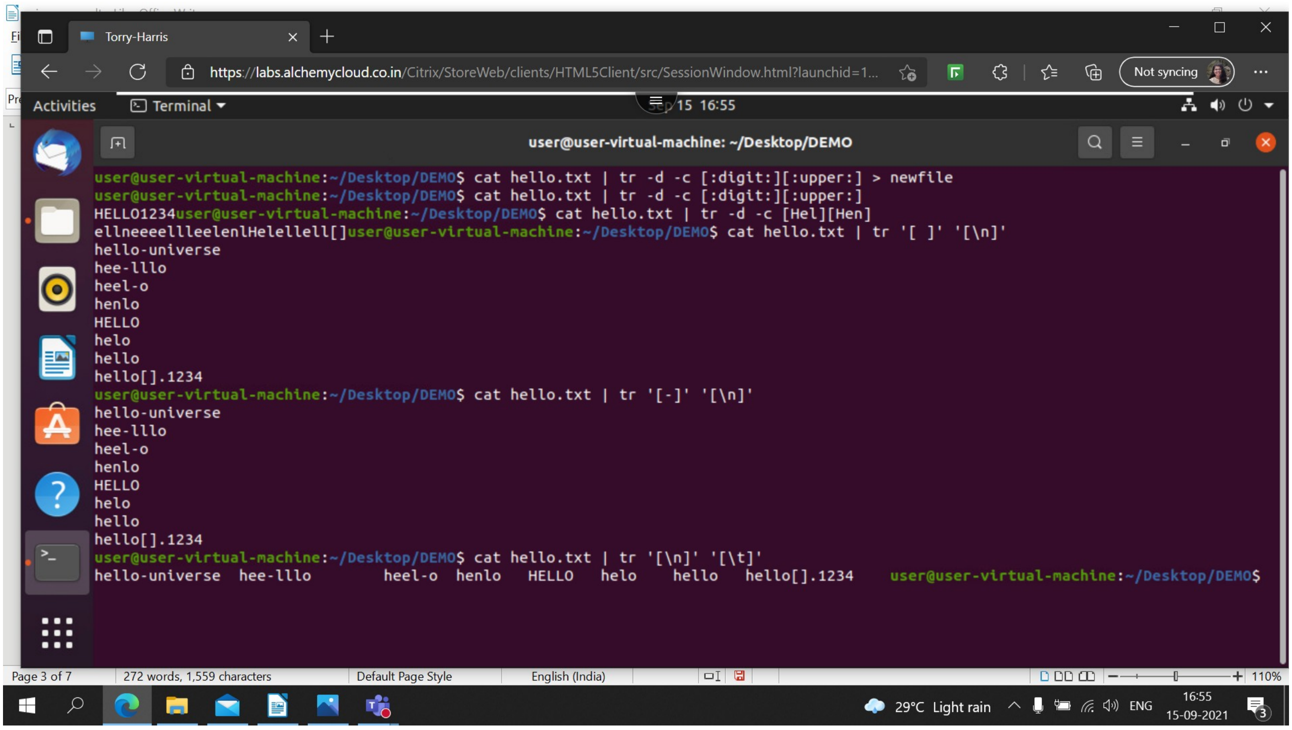
```
Try 'tr --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ echo 'I Am a biRd' | tr [:upper:] [:lo
wer:]
i am a bird
user@user-virtual-machine:~/Desktop/DEMO$
```



```
hello-universe
hee-lllo
heel-o
henlo

helo
hello
hello[].
```

```
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d [:digit:][:upper
:]
hello-universe
hee-lllo
heel-o
henlo

helo
hello
hello[].
user@user-virtual-machine:~/Desktop/DEMO$ echo I AM A bird | tr [:upper:]
tr: missing operand after ‘[:upper:]’
Two strings must be given when translating.
Try 'tr --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ echo 'I Am a biRd' | tr [:upper:]
tr: missing operand after ‘[:upper:]’
Two strings must be given when translating.
Try 'tr --help' for more information.
user@user-virtual-machine:~/Desktop/DEMO$ echo 'I Am a biRd' | tr [:upper:] [:lo
wer:]
i am a bird
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d [:digit:][:upper
:] > newfile
user@user-virtual-machine:~/Desktop/DEMO$ 
```

writing it to a new file



Torry-Harris
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 16:55
user@user-virtual-machine: ~/Desktop/DEMO
Page 3 of 7
272 words, 1,559 characters
Default Page Style
English (India)
29°C Light rain
ENG
16:55
15-09-2021

```
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d -c [:digit:][:upper:] > newfile
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d -c [:digit:][:upper:]
HELLO1234user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr -d -c [Hel][Hen]
ellneeeellleelenlHelellell[]user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr '[ ]' '[\n]'
hello-universe
hee-lllo
heel-o
henlo
HELLO
helo
hello
hello[].1234
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr '[-]' '[\n]'
hello-universe
hee-lllo
heel-o
henlo
HELLO
helo
hello
hello[].1234
user@user-virtual-machine:~/Desktop/DEMO$ cat hello.txt | tr '[\n]' '[\t]'
hello-universe  hee-lllo        heel-o  henlo   HELLO   helo    hello   hello[].1234    user@user-virtual-machine:~/Desktop/DEMO$
```

more

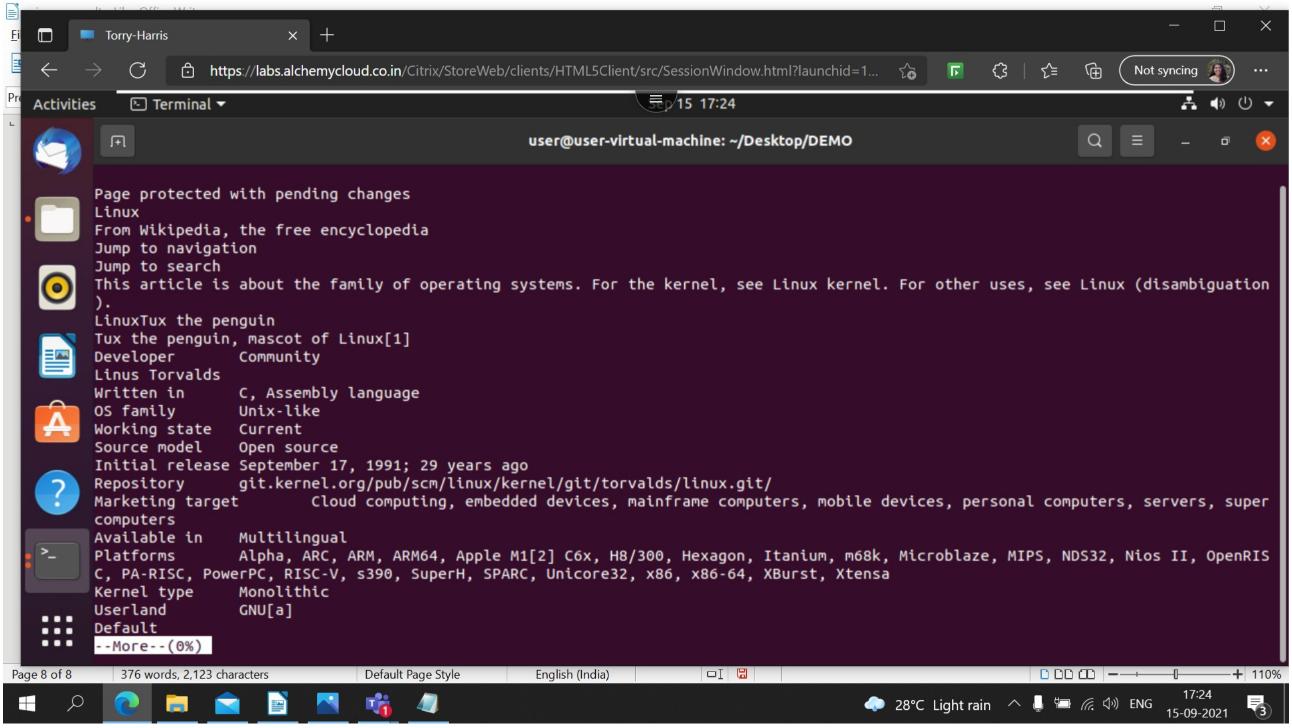
more command is used to view the text files in the command prompt, displaying one screen at a time in case the file is large

-d : Use this command in order to help the user to navigate. It displays “[Press space to continue, ‘q’ to quit.]” and displays “[Press ‘h’ for instructions.]” when wrong key is pressed.

-p : This option clears the screen and then displays the text.

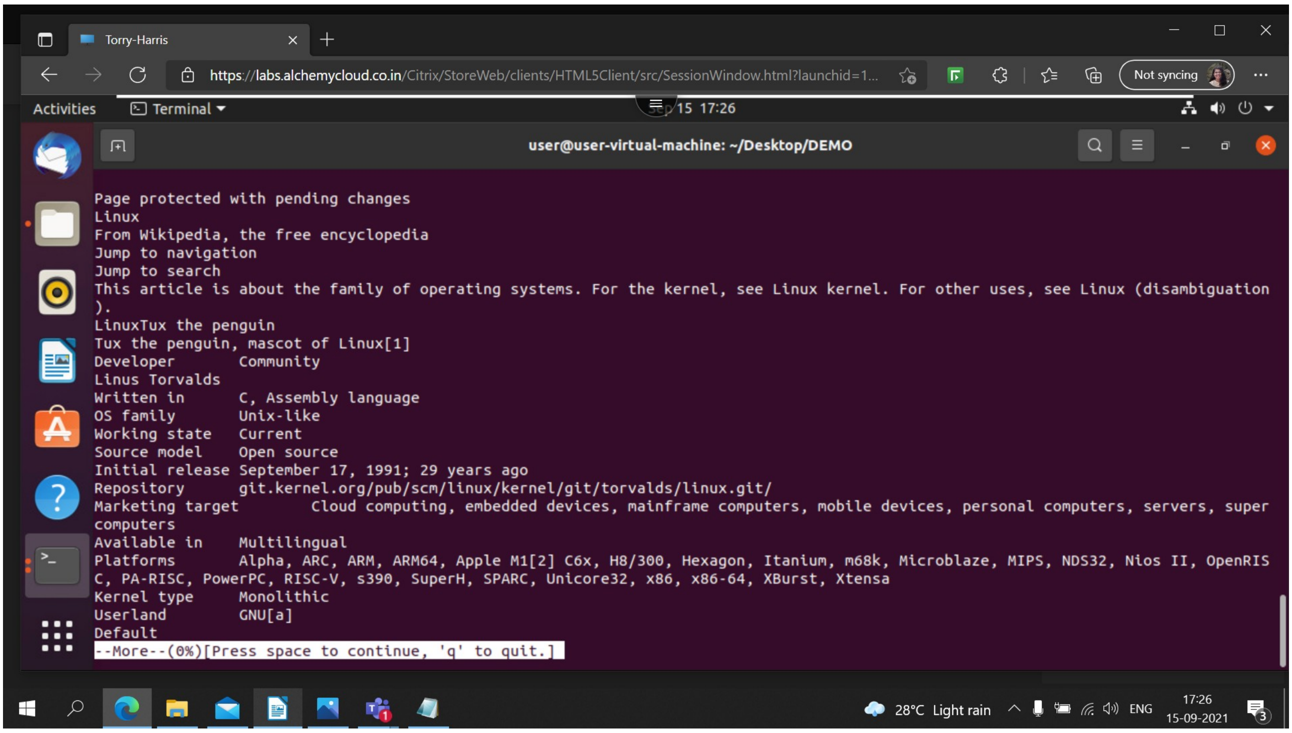
-c : This command is used to display the pages on the same area by overlapping the previously displayed text.

-s : This option squeezes multiple blank lines into one single blank line


Torry-Harris
https://labs.alchemycloud.co.in/Citrix/StoreWeb/clients/HTML5Client/src/SessionWindow.html?launchid=1...
Not syncing
Activities
Terminal
Sep 15 17:24
user@user-virtual-machine: ~/Desktop/DEMO
Page 8 of 8
376 words, 2,123 characters
Default Page Style
English (India)
110%
28°C Light rain
ENG
17:24
15-09-2021

```
Page protected with pending changes
Linux
From Wikipedia, the free encyclopedia
Jump to navigation
Jump to search
This article is about the family of operating systems. For the kernel, see Linux kernel. For other uses, see Linux (disambiguation
).
LinuxTux the penguin
Tux the penguin, mascot of Linux[1]
Developer       Community
Linus Torvalds
Written in      C, Assembly language
OS family       Unix-like
Working state   Current
Source model    Open source
Initial release September 17, 1991; 29 years ago
Repository      git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/
Marketing target        Cloud computing, embedded devices, mainframe computers, mobile devices, personal computers, servers, super
computers
Available in    Multilingual
Platforms       Alpha, ARC, ARM, ARM64, Apple M1[2] C6x, H8/300, Hexagon, Itanium, m68k, Microblaze, MIPS, NDS32, Nios II, OpenRIS
C, PA-RISC, PowerPC, RISC-V, s390, SuperH, SPARC, Unicore32, x86, x86-64, XBurst, Xtensa
Kernel type     Monolithic
Userland        GNU[a]
Default
--More--(0%)
```

Similar output for -p, -c



```
Page protected with pending changes
Linux
From Wikipedia, the free encyclopedia
Jump to navigation
Jump to search
This article is about the family of operating systems. For the kernel, see Linux kernel. For other uses, see Linux (disambiguation
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Repository      git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git/
Marketing target        Cloud computing, embedded devices, mainframe computers, mobile devices, personal computers, servers, super
computers
Available in    Multilingual
Platforms       Alpha, ARC, ARM, ARM64, Apple M1[2] C6x, H8/300, Hexagon, Itanium, m68k, Microblaze, MIPS, NDS32, Nios II, OpenRIS
C, PA-RISC, PowerPC, RISC-V, s390, SuperH, SPARC, Unicore32, x86, x86-64, XBurst, Xtensa
Kernel type     Monolithic
Userland        GNU[a]
Default
--More--(0%)[Press space to continue, 'q' to quit.]
```
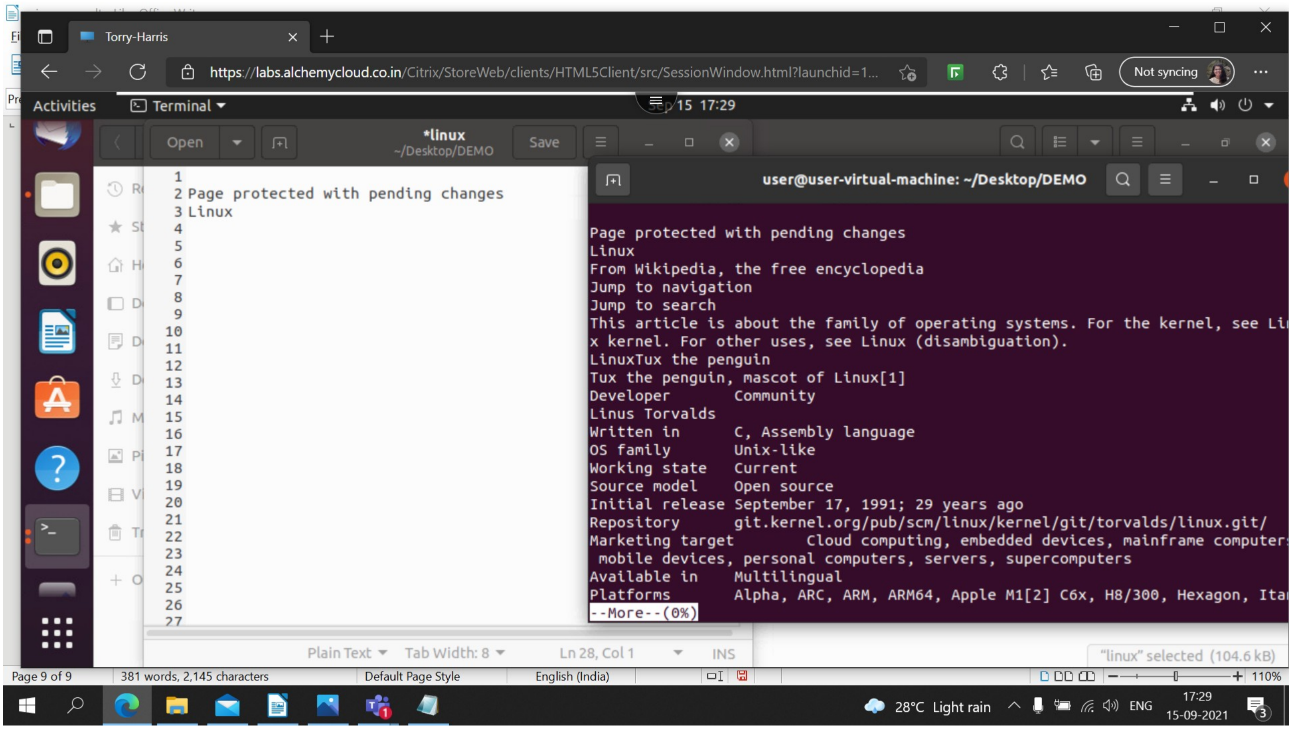

Output of -d



```

Page protected with pending changes
Linux
```

```
Page protected with pending changes
Linux
From Wikipedia, the free encyclopedia
Jump to navigation
Jump to search
This article is about the family of operating systems. For the kernel, see Li
x kernel. For other uses, see Linux (disambiguation).
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 mobile devices, personal computers, servers, supercomputers
Available in    Multilingual
Platforms       Alpha, ARC, ARM, ARM64, Apple M1[2] C6x, H8/300, Hexagon, Ita
--More--(0%)
```

Output for -s