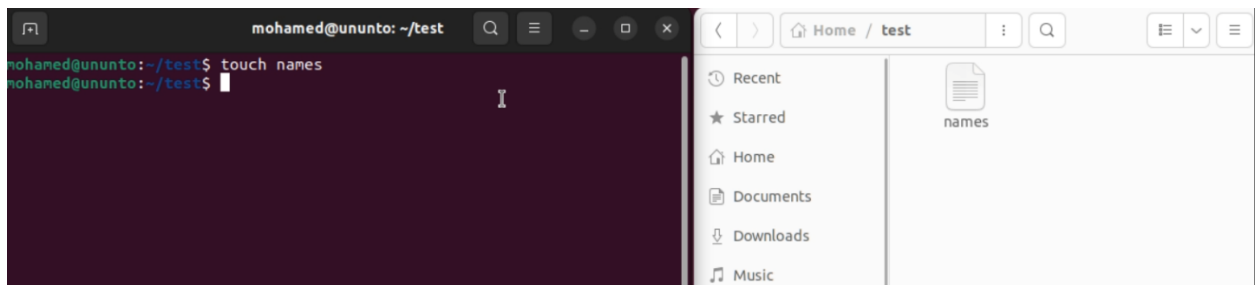


Sheet 2

1- touch

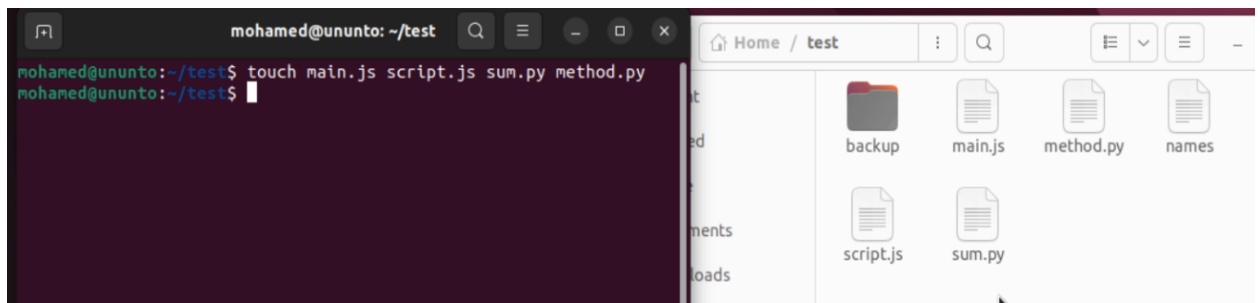
used to create an empty file.

Example touch names



We can use touch to create multiple files

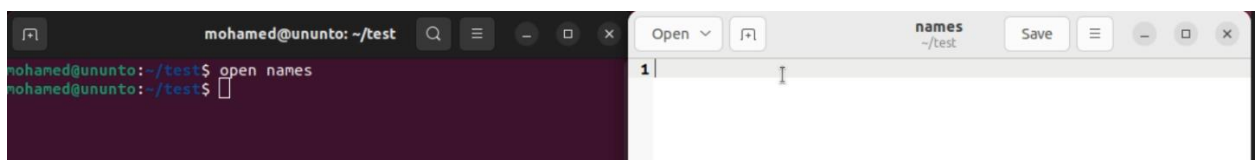
Example touch main.js script.js sum.py method.py



2- open

used to open a file or directory and we can also run applications

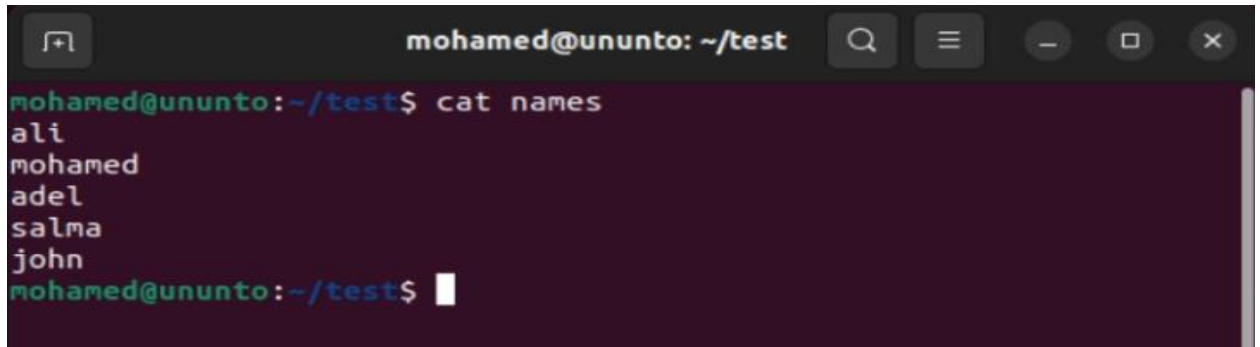
Example open names



3- cat

used to show file content

Example cat names



```
mohamed@ununto: ~/test
mohamed@ununto:~/test$ cat names
ali
mohamed
adel
salma
john
mohamed@ununto:~/test$
```

4- nano

used to edit file using terminal

Example nano names



```
GNU nano 6.2 names *
ali
mohamed
adel
salma
john

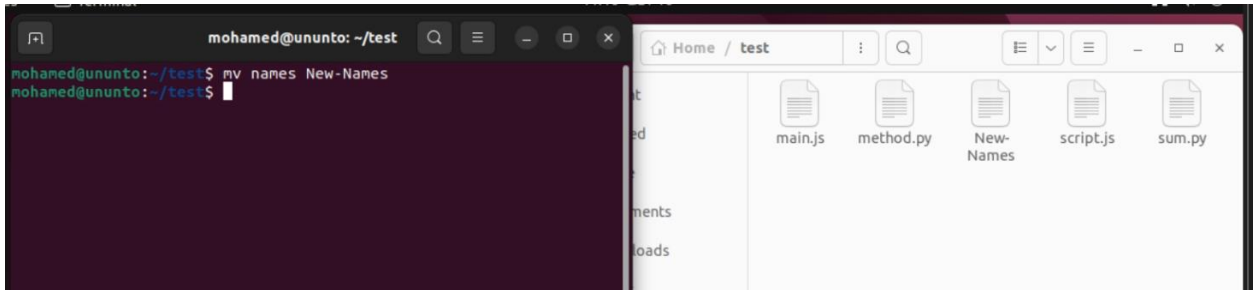
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste    ^J Justify
```

use **ctrl + O** to save changes **ctrl + X** to exit from nano

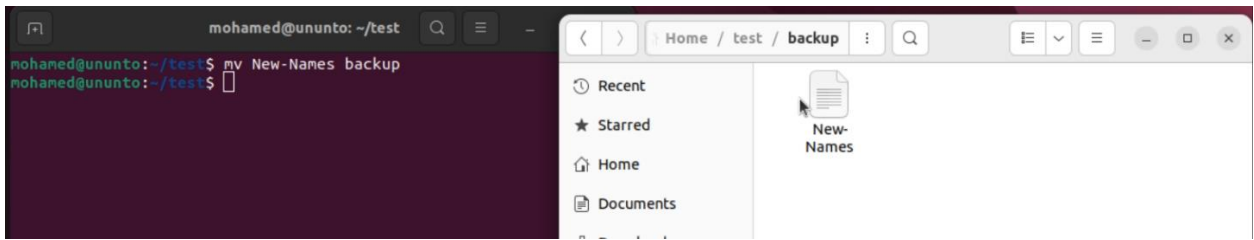
5- mv

used to rename file or move it to another location

Example mv names New-Names



Move it to a backup directory

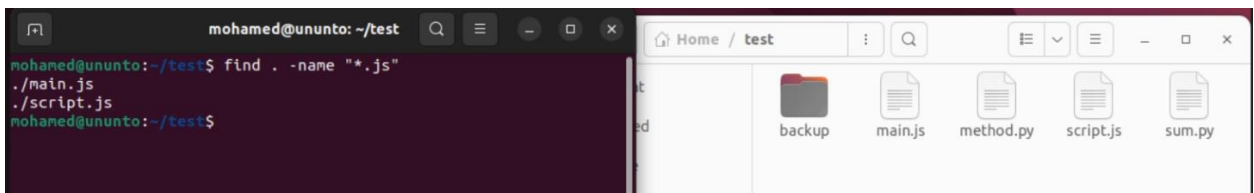


Hint we must create a backup directory first with mkdir

6- find

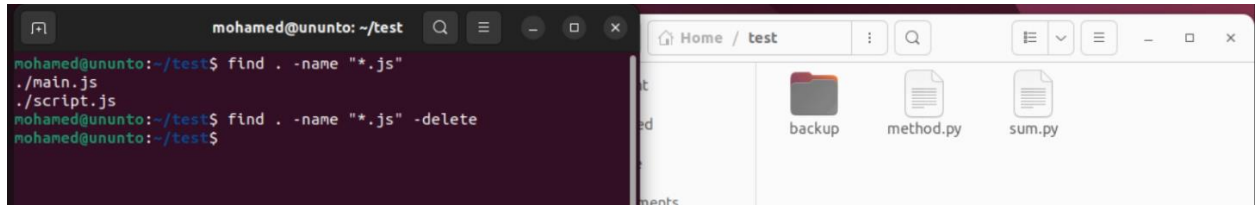
used to search for files or directories

Example find . -name "*.js" get all files with extension .js



We also can take action with find command

Example `find . -name "*.js" -delete` this will delete all files which have .js extensions

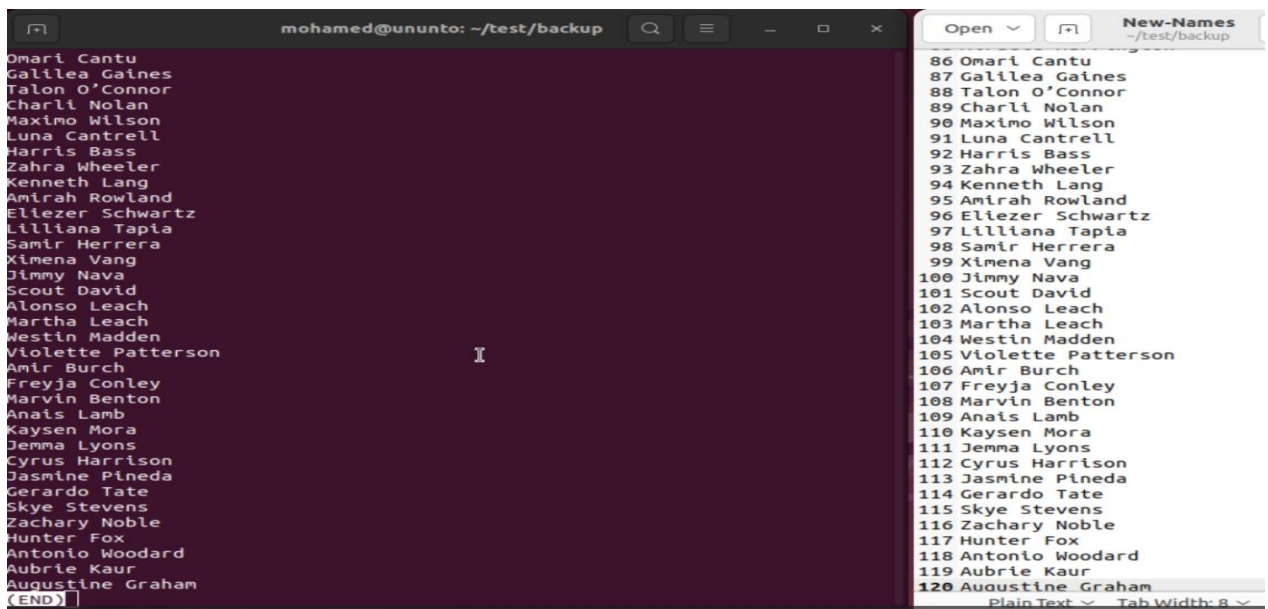


```
mohamed@ununto: ~/test
mohamed@ununto:~/test$ find . -name "*.js"
./main.js
./script.js
mohamed@ununto:~/test$ find . -name "*.js" -delete
mohamed@ununto:~/test$
```

7- less

used to view file content interactively. `less file` - Opens "file" in viewer.

Example `less New-Names`



```
mohamed@ununto: ~/test/backup
86 Omarl Cantu
87 Galilea Gaines
88 Talon O'Connor
89 Charli Nolan
90 Maximo Wilson
91 Luna Cantrell
92 Harris Bass
93 Zahra Wheeler
94 Kenneth Lang
95 Amirah Rowland
96 Eliezer Schwartz
97 Lilliana Tapia
98 Samir Herrera
99 Ximena Vang
100 Jimmy Nava
101 Scout David
102 Alonso Leach
103 Martha Leach
104 Westin Madden
105 Violette Patterson
106 Amir Burch
107 Freyja Conley
108 Marvin Benton
109 Anais Lamb
110 Kaysen Mora
111 Jemma Lyons
112 Cyrus Harrison
113 Jasmine Pineda
114 Gerardo Tate
115 Skye Stevens
116 Zachary Noble
117 Hunter Fox
118 Antonio Woodard
119 Aubrie Kaur
120 Augustine Graham
(END)
```

We can use **space** to scroll next page **b** to scroll back one page

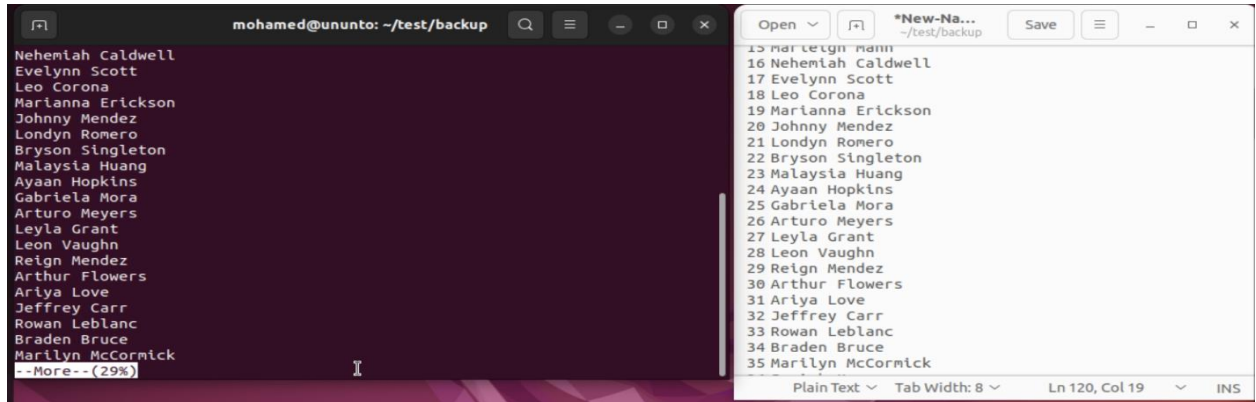
G to get the end of the file **g** to get the start of the file

q to exit less **/word** to search for the word

8- more

the oldest version of less with the same purpose but here **we cannot scroll back** to the previous page and when we reach to the end of the file the file **will exit automatically**

Example more New-Names



```
mohamed@ununto: ~/test/backup
Nehemiah Caldwell
Evelynn Scott
Leo Corona
Marianna Erickson
Johnny Mendez
Londyn Romero
Bryson Singleton
Malaysia Huang
Ayaan Hopkins
Gabriela Mora
Arturo Meyers
Leyla Grant
Leon Vaughn
Reign Mendez
Arthur Flowers
Ariya Love
Jeffrey Carr
Rowan Leblanc
Braden Bruce
Marilyn McCormick
--More-- (29%)
```

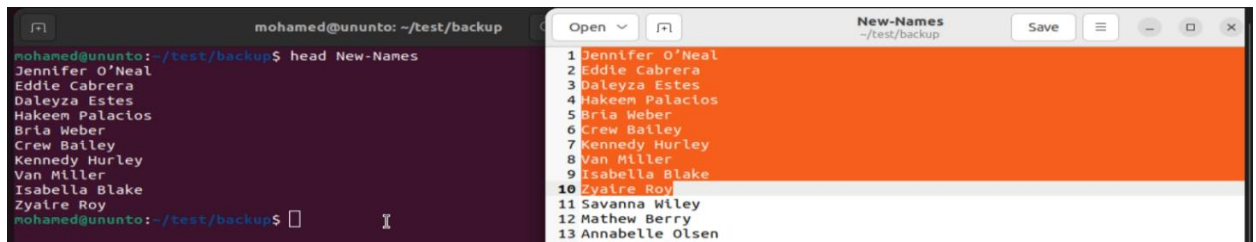
Hint

At the end of each page we see a percentage of the data that has been viewed

9- head

used to show the first lines of the file by default it will be **10 lines**

Example head New-Names



```
mohamed@ununto: ~/test/backup
mohamed@ununto:~/test/backup$ head New-Names
Jennifer O'Neal
Eddie Cabrera
Daleyza Estes
Hakeem Palacios
Bria Weber
Crew Bailey
Kennedy Hurley
Van Miller
Isabella Blake
Zyaire Roy
mohamed@ununto:~/test/backup$
```

If we want of print a specific number of lines we will write

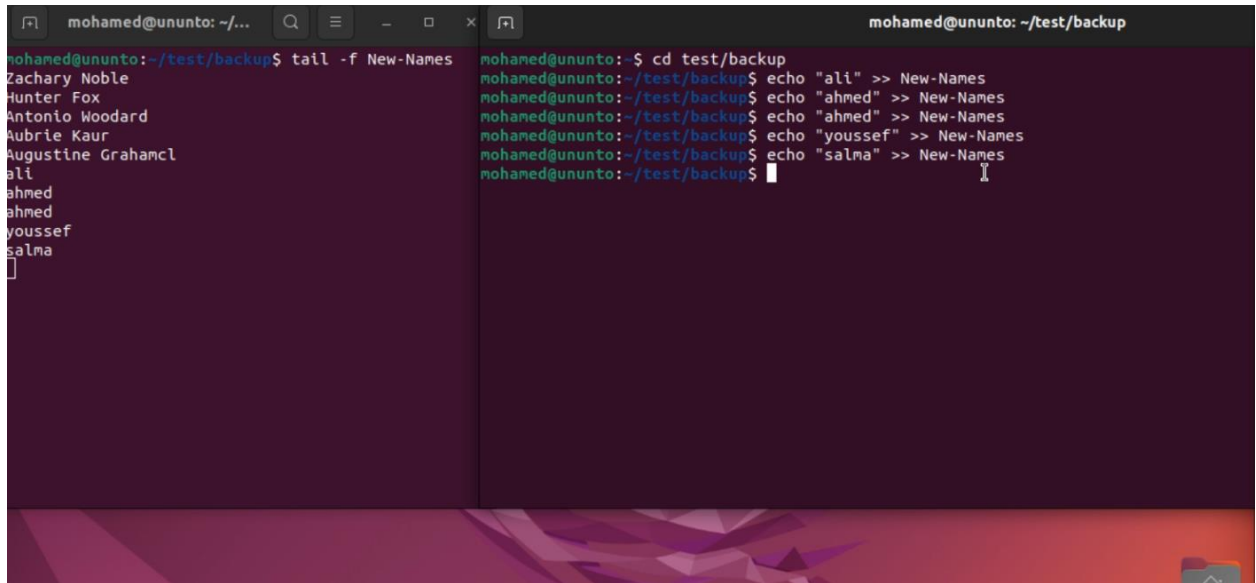
Head -n 5 New-Names

this will show the first five lines only

10- tail

used to show the last lines of the file and also we can use this command to follow the changes that applied to the file.

Example `tail -f New-Names`

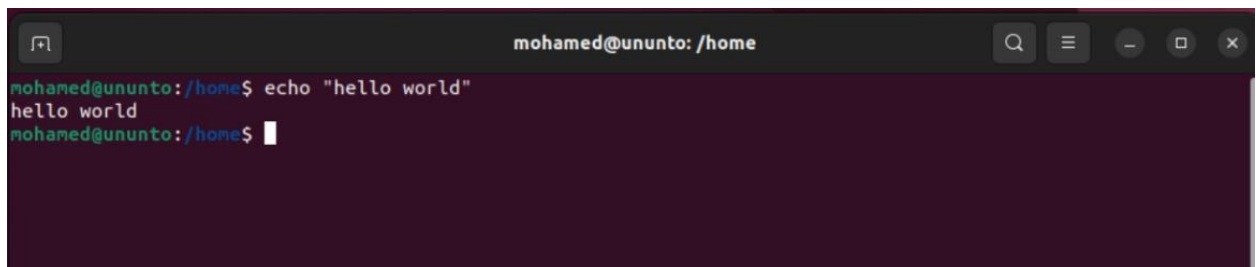


The image shows a terminal window with two panes. The left pane shows the output of the `tail -f New-Names` command, displaying a list of names: Zachary Noble, Hunter Fox, Antonio Woodard, Aubrie Kaur, Augustine Grahamcl, ali, ahmed, ahmed, youssef, salma, and a blank line. The right pane shows the commands used to create the file: `cd test/backup`, followed by five `echo "name" >> New-Names` commands for "ali", "ahmed", "ahmed", "youssef", and "salma".

11- echo

used to write text in files or to print message on the terminal.

Example `echo "hello world"`



The image shows a terminal window with the command `echo "hello world"` entered and executed. The output "hello world" is printed on the line immediately following the command.

Hint if you write text into file and write the file name like this

> this will delete all text in the file and start to write from first line

>> this will write in the end of the file without delete anything

12- grep

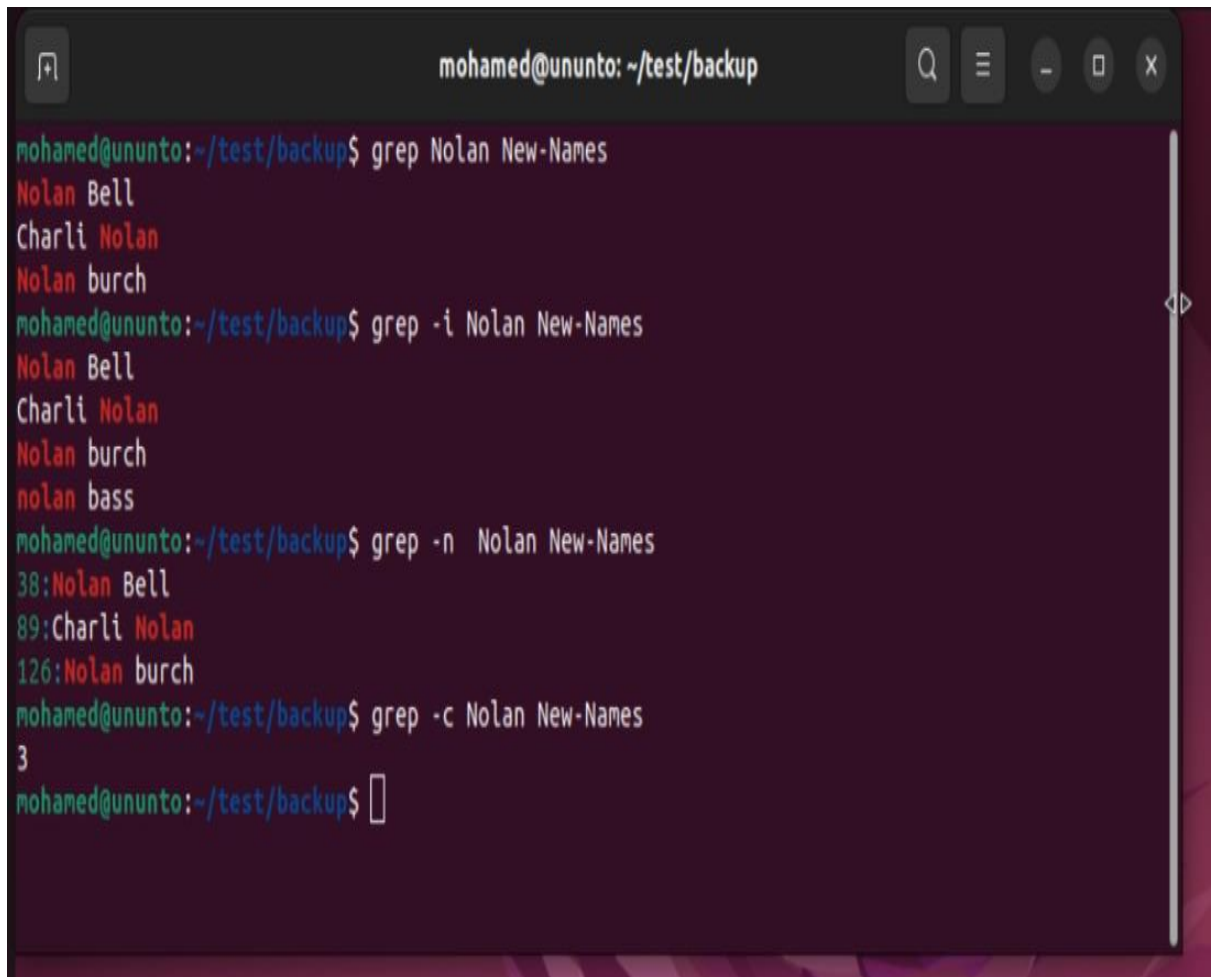
very useful tool used to search in files

Example `grep Nolan New-Names`

`grep -i Nolan New-Names` (incase sensitive)

`grep -n Nolan New-Names` (show lines number)

`grep -c Nolan New-Names` (show how many times)



```
mohamed@ununto: ~/test/backup
mohamed@ununto:~/test/backup$ grep Nolan New-Names
Nolan Bell
Charli Nolan
Nolan burch
mohamed@ununto:~/test/backup$ grep -i Nolan New-Names
Nolan Bell
Charli Nolan
Nolan burch
nolan bass
mohamed@ununto:~/test/backup$ grep -n Nolan New-Names
38:Nolan Bell
89:Charli Nolan
126:Nolan burch
mohamed@ununto:~/test/backup$ grep -c Nolan New-Names
3
mohamed@ununto:~/test/backup$
```

13- sort

used to sort and order text in files

Example	sort animals	(sort in ascending order)
	sort -r animals	(sort in descending order)
	sort -u animals	(remove the redundancy)

```
mohamed@ununto: ~/test
mohamed@ununto:~/test$ cat animals
elephant
lion
cat
dog
tiger
wolf
cat
cat
dog

mohamed@ununto:~/test$ sort animals

cat
cat
cat
dog
dog
elephant
lion
tiger
wolf
mohamed@ununto:~/test$ sort -r animals
```

```
mohamed@ununto:~/test$ sort -u animals

cat
dog
elephant
lion
tiger
wolf
```


Complete the following questions.

- 1- is command used to create empty files .
- 2- open command used to open
- 3- If we want to show file content we use
- 4- we can usecommand to create a multiple files in one step.
- 5- is command used to rename files.
- 6- If we want to edit file we use
- 7- less command used to
- 8- command dose not allow scroll back
- 9- the head command display
- 10- the command file.txt display the last five lines of the file.
- 11- we can use the character to scroll back one page in less
- 13- Command used to print messages in the terminal.
- 14- is very useful tool for searching in files
- 15- if we want to order text in descending order in file we use.....