

ASSIGNMENT 2

SONU . P

NO :69

S4_CSE

FOSS LAB21/02/12019

1. Display your current directory

A terminal window titled 'user@user-Veriton-Series: ~/s469' with a dark purple background. The window shows the execution of the 'pwd' command, which outputs '/home/user/s469'. The prompt 'user@user-Veriton-Series:~/s469\$' is visible on the line below. On the left side of the window, there is a vertical dock with various application icons including a gear, a folder, a web browser, a document, a spreadsheet, a presentation, a shopping bag, an Amazon logo, a wrench and screwdriver, a notepad, a terminal, and a stack of disks. The top right corner of the window displays system icons for network, battery, and volume, along with the time '11:34 AM' and the username 'user'.

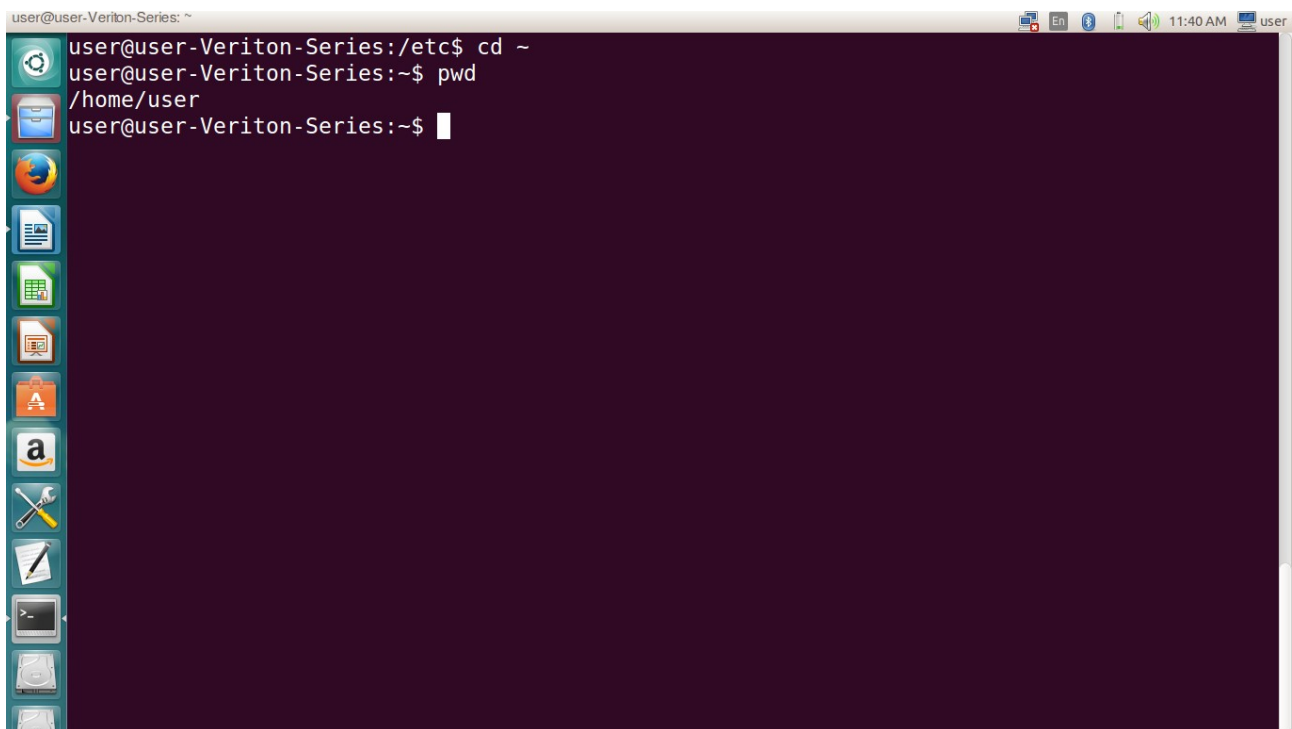
```
user@user-Veriton-Series: ~/s469
user@user-Veriton-Series:~/s469$ pwd
/home/user/s469
user@user-Veriton-Series:~/s469$
```

2. change to the /etc directory

A terminal window titled 'user@user-Veriton-Series: /etc' with a dark purple background. The window shows the execution of 'cd /etc' followed by 'pwd', which outputs '/etc'. The prompt 'user@user-Veriton-Series:/etc\$' is visible on the line below. The interface is identical to the first screenshot, with the same dock on the left and system status on the top right.

```
user@user-Veriton-Series: /etc
user@user-Veriton-Series:~/s469$ cd /etc
user@user-Veriton-Series:/etc$ pwd
/etc
user@user-Veriton-Series:/etc$
```

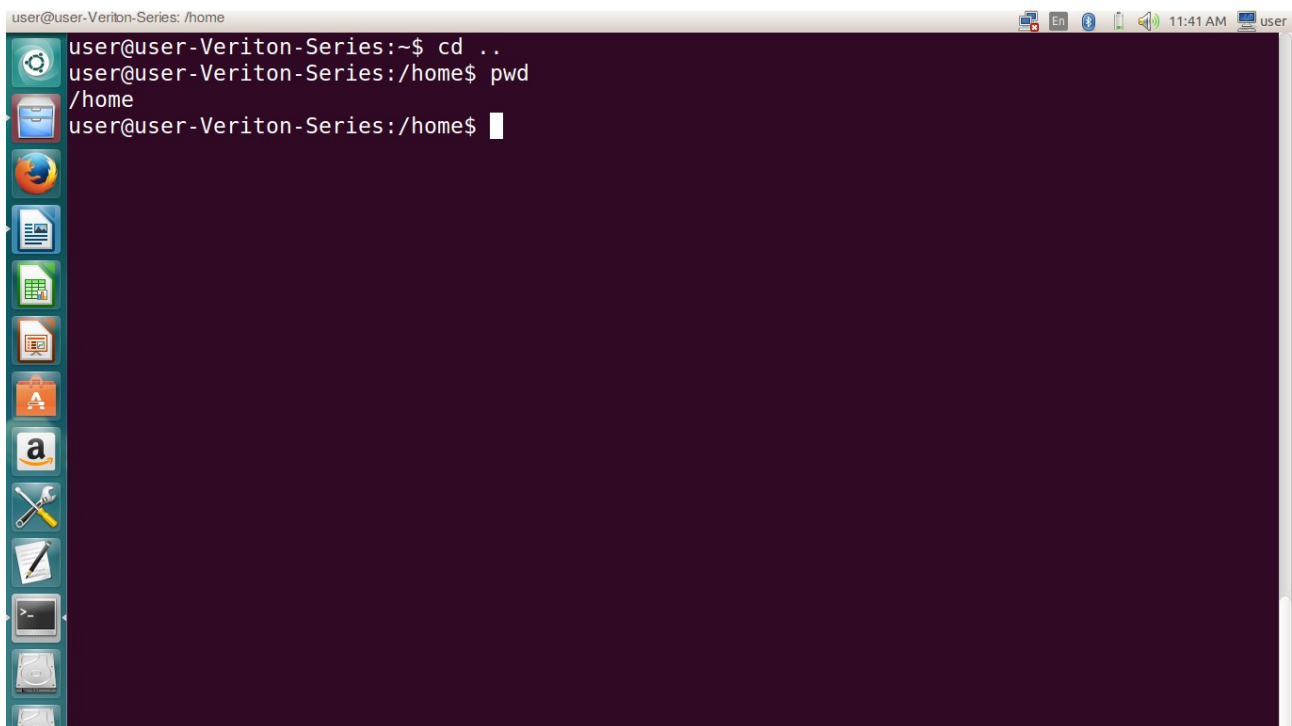
3. Change to your home directory using a single command



A terminal window titled "user@user-Veriton-Series: ~" with a dark purple background. The left sidebar contains icons for system settings, file manager, Firefox, LibreOffice Writer, LibreOffice Calc, LibreOffice Impress, Amazon, and various system utilities. The terminal text shows the user navigating from /etc to their home directory (~) using the 'cd' command, and then verifying the location with 'pwd'.

```
user@user-Veriton-Series: /etc$ cd ~  
user@user-Veriton-Series:~$ pwd  
/home/user  
user@user-Veriton-Series:~$
```

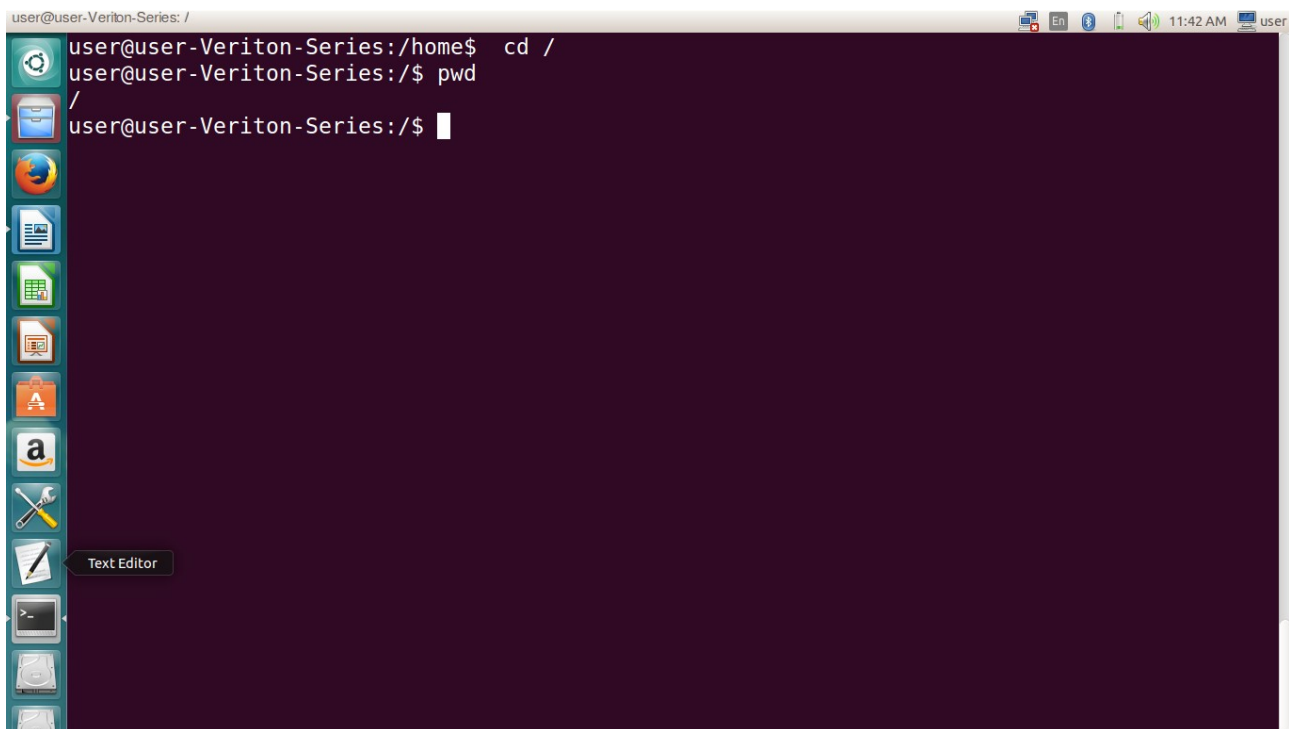
4. Change to the parent directory of the current directory



A terminal window titled "user@user-Veriton-Series: /home" with a dark purple background. The left sidebar is identical to the previous image. The terminal text shows the user navigating from /home to its parent directory (..) using the 'cd' command, and then verifying the location with 'pwd'.

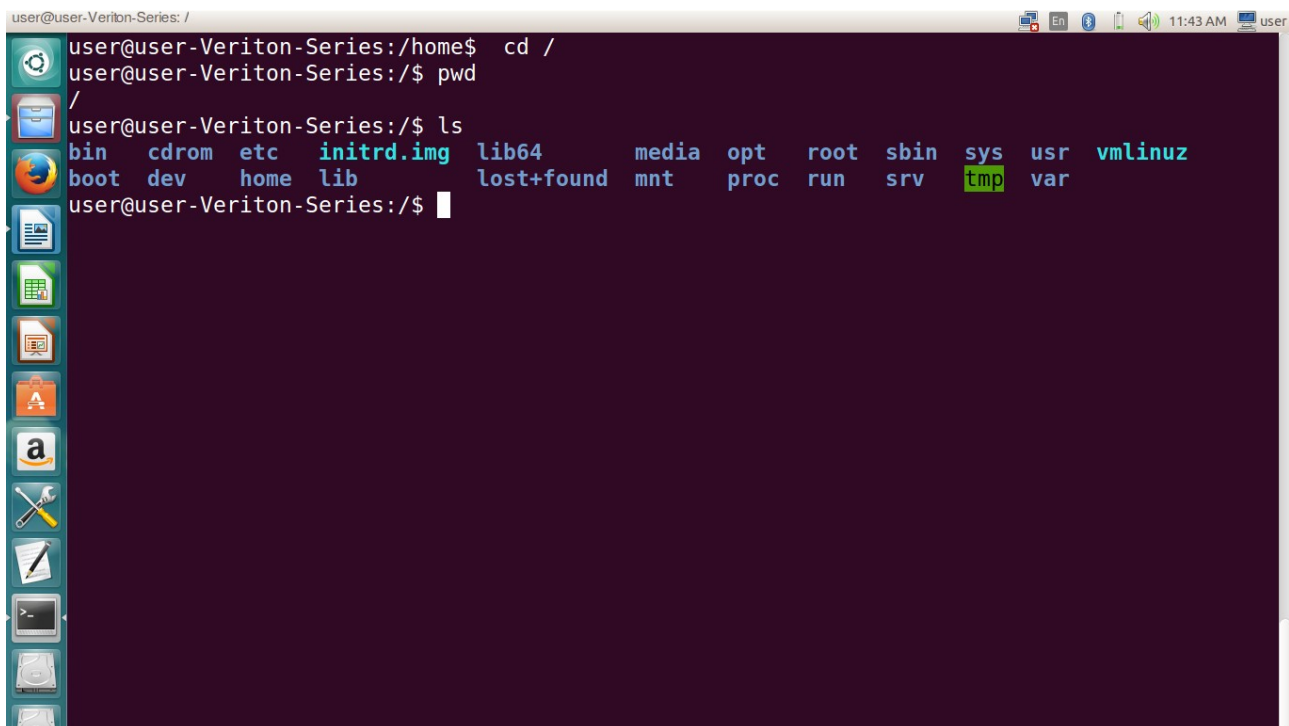
```
user@user-Veriton-Series: /home$ cd ..  
user@user-Veriton-Series:~$ pwd  
/home  
user@user-Veriton-Series:~$
```

5. Go to the root directory

A terminal window titled 'user@user-Veriton-Series: /' with a dark purple background. The left sidebar contains icons for various applications, with 'Text Editor' highlighted. The terminal shows the following commands and output:

```
user@user-Veriton-Series:/home$ cd /
user@user-Veriton-Series:/$ pwd
/
user@user-Veriton-Series:/$
```

6. Give a long listing of the root directory

A terminal window titled 'user@user-Veriton-Series: /' with a dark purple background. The left sidebar contains icons for various applications, with 'Text Editor' highlighted. The terminal shows the following commands and output:

```
user@user-Veriton-Series:/home$ cd /
user@user-Veriton-Series:/$ pwd
/
user@user-Veriton-Series:/$ ls
bin  cdrom  etc  initrd.img  lib64      media  opt  root  sbin  sys  usr  vmlinuz
boot dev  home  lib        lost+found  mnt    proc  run  srv  tmp  var
user@user-Veriton-Series:/$
```

7. Give a list of the last 10 files in the root directory

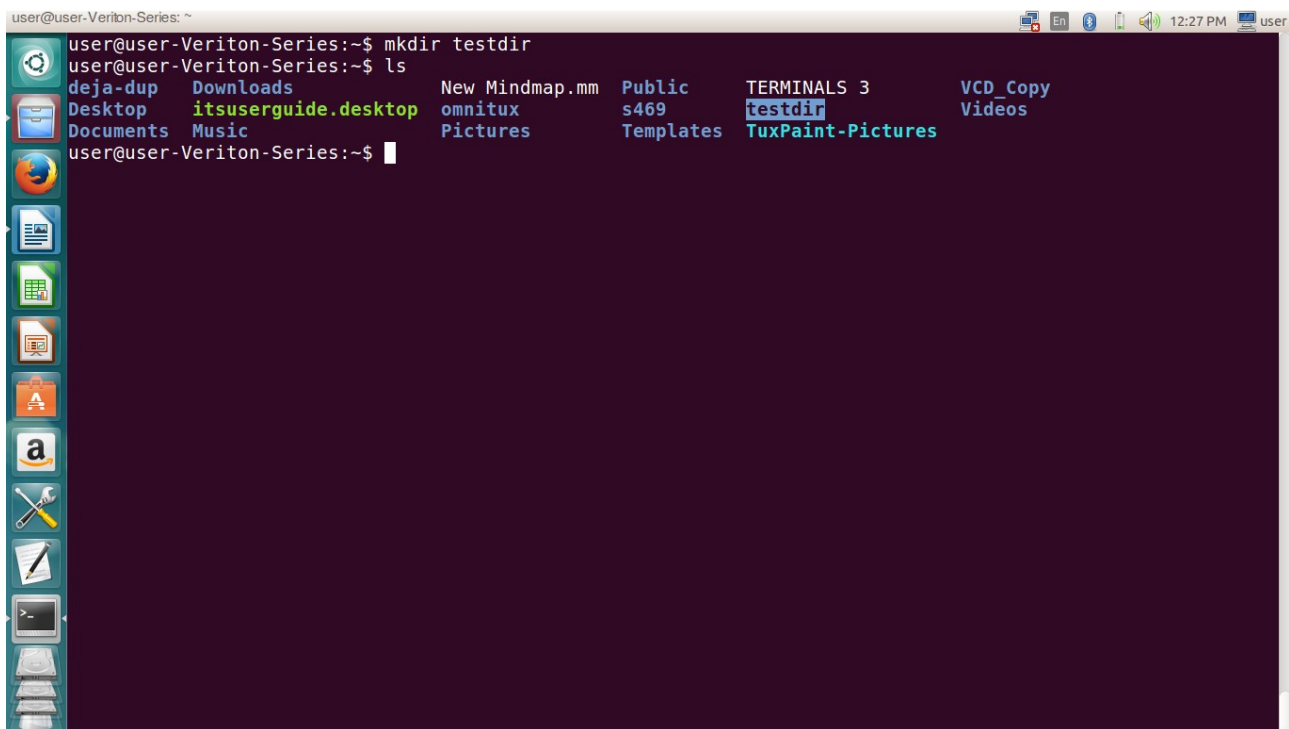


```
user@user-Veriton-Series: /  
user@user-Veriton-Series:/$ ls | tail -10  
proc  
root  
run  
sbin  
srv  
sys  
tmp  
usr  
var  
vmlinuz  
user@user-Veriton-Series:/$
```

8. Stay where you are, and list the contents of /etc

[illegible]

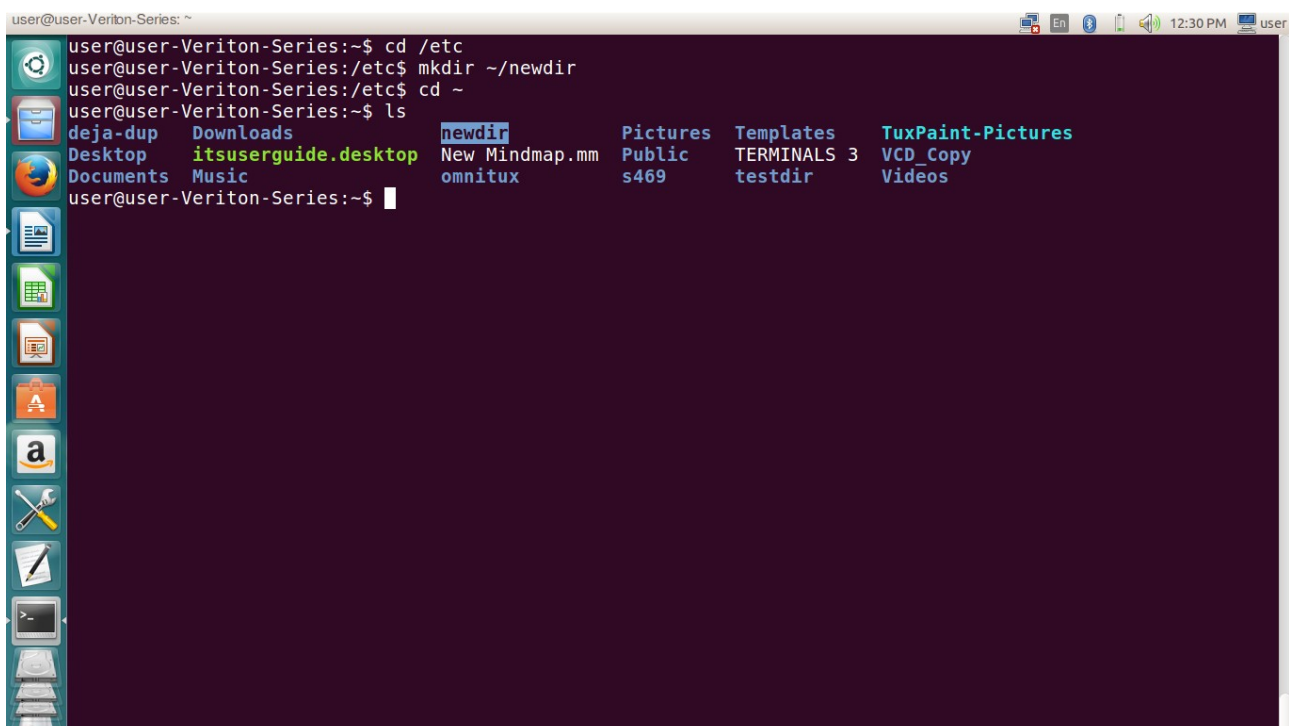
9. Create a directory testdir in your home directory



A terminal window titled 'user@user-Veriton-Series: ~' with a dark purple background. The command prompt shows the user has executed 'mkdir testdir' and 'ls'. The 'ls' output lists various files and directories in the home directory, including 'deja-dup', 'Downloads', 'Desktop', 'itsuserguide.desktop', 'Documents', 'Music', 'New Mindmap.mm', 'omnitux', 'Pictures', 'Public', 's469', 'Templates', 'TERMINALS 3', 'testdir', 'TuxPaint-Pictures', 'VCD_Copy', and 'Videos'. The 'testdir' directory is highlighted in blue. The window has a sidebar with application icons on the left and system status icons on the right.

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ mkdir testdir  
user@user-Veriton-Series:~$ ls  
deja-dup  Downloads  New Mindmap.mm  Public  TERMINALS 3  VCD_Copy  
Desktop  itsuserguide.desktop  omnitux  s469  testdir  Videos  
Documents  Music  Pictures  Templates  TuxPaint-Pictures  
user@user-Veriton-Series:~$
```

10. Change to the /etc directory, stay there and create a directory newdir in your home directory



A terminal window titled 'user@user-Veriton-Series: ~' with a dark purple background. The command prompt shows the user has executed 'cd /etc', 'mkdir ~/newdir', and 'cd ~'. The user then executes 'ls' in the home directory. The 'ls' output lists various files and directories, including 'deja-dup', 'Downloads', 'Desktop', 'itsuserguide.desktop', 'Documents', 'Music', 'newdir', 'New Mindmap.mm', 'omnitux', 'Pictures', 'Public', 's469', 'Templates', 'TERMINALS 3', 'testdir', 'TuxPaint-Pictures', 'VCD_Copy', and 'Videos'. The 'newdir' directory is highlighted in blue. The window has a sidebar with application icons on the left and system status icons on the right.

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ cd /etc  
user@user-Veriton-Series:/etc$ mkdir ~/newdir  
user@user-Veriton-Series:/etc$ cd ~  
user@user-Veriton-Series:~$ ls  
deja-dup  Downloads  newdir  Pictures  Templates  TuxPaint-Pictures  
Desktop  itsuserguide.desktop  New Mindmap.mm  Public  TERMINALS 3  VCD_Copy  
Documents  Music  omnitux  s469  testdir  Videos  
user@user-Veriton-Series:~$
```

11. Create in one command the directories ~/dir1/dir2/dir3 (dir3 is a subdirectory from dir2, and dir2 is a subdirectory from dir1)

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ mkdir -p ~/dir1/dir2/dir3  
user@user-Veriton-Series:~$ ls dir1  
dir2  
user@user-Veriton-Series:~$ ls dir1/dir2  
dir3  
user@user-Veriton-Series:~$
```

12. Display the calendar for April 2019.

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ cal 4 2019  
April 2019  
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  
user@user-Veriton-Series:~$
```

13. Display that 'There are.....files in my current directory'.Theshould be filled with the count of the files

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ echo There are $(ls | wc -l) files in my current directory  
There are 19 files in my current directory  
user@user-Veriton-Series:~$ ls  
deja-dup  Documents      Music          omnitux      s469         testdir      Videos  
Desktop   Downloads      newdir         Pictures     Templates    TuxPaint-Pictures  
dir1      itsuserguide.desktop New Mindmap.mm Public        TERMINALS 3  VCD_Copy  
user@user-Veriton-Series:~$
```

14. List all the files (include hidden)in your home directory

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ ls -a  
.          .compiz      .freemind     .java         omnitux      testdir  
..         .config      .gconf        .kde          Pictures     .thumbnails  
.adobe     .dbus        .gimp-2.8     .local        .profile     .tuxpaint  
.appletviewer deja-dup      .gksu.lock    .macromedia   Public       TuxPaint-Pictures  
.audacity-data Desktop      .gnome2       .mozilla      .qgis2       .tuxpaintrc  
.bash_history dir1         .gnome2_private .mozilla      .rpmdb       VCD_Copy  
.bash_logout .dmrc        .gnupg        Music         s469         Videos  
.bashrc     Documents    .gphoto       mypaint       .ssh         .Xauthority  
.brainparty  Downloads    .ICEauthority newdir        Templates    .xsession-errors  
.cache       .etracer     itsuserguide.desktop New Mindmap.mm TERMINALS 3  .xsession-errors.old  
user@user-Veriton-Series:~$
```

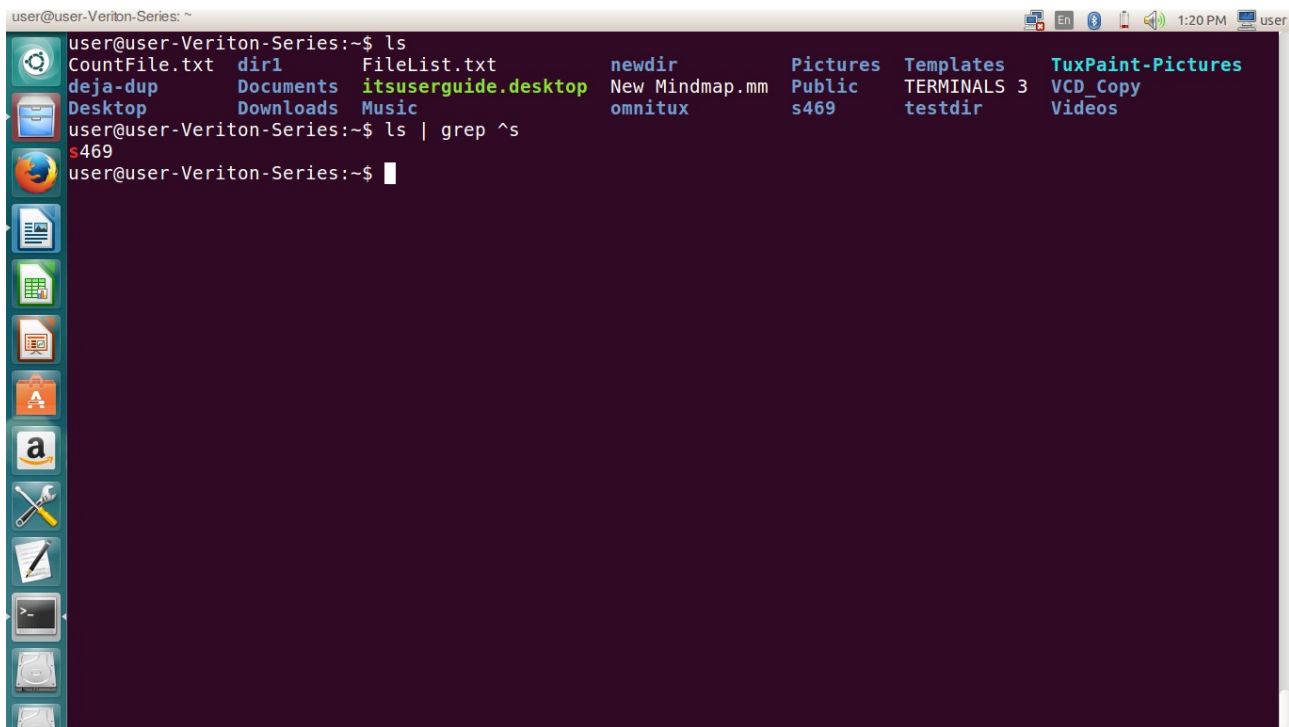

15. Redirect the output of the above command to a new file FileList.txt

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ ls -a >> FileList.txt  
user@user-Veriton-Series:~$ cat FileList.txt  
.  
..  
.adobe  
.appletviewer  
.audacity-data  
.bash_history  
.bash_logout  
.bashrc  
.brainparty  
.cache  
.compiz  
.config  
.dbus  
deja-dup  
Desktop  
dir1  
.dmrc  
Documents  
Downloads  
.etracer  
FileList.txt  
.freemind  
.gconf  
.gimp-2.8  
.gksu.lock  
.gnome2  
.gnome2_private  
.gnupg  
.gphoto  
.ICEauthority
```

16. Redirect the number of lines of FileList.txt to CountFile.txt

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ wc -l FileList.txt > CountFile.txt  
user@user-Veriton-Series:~$ cat CountFile.txt  
61 FileList.txt  
user@user-Veriton-Series:~$
```

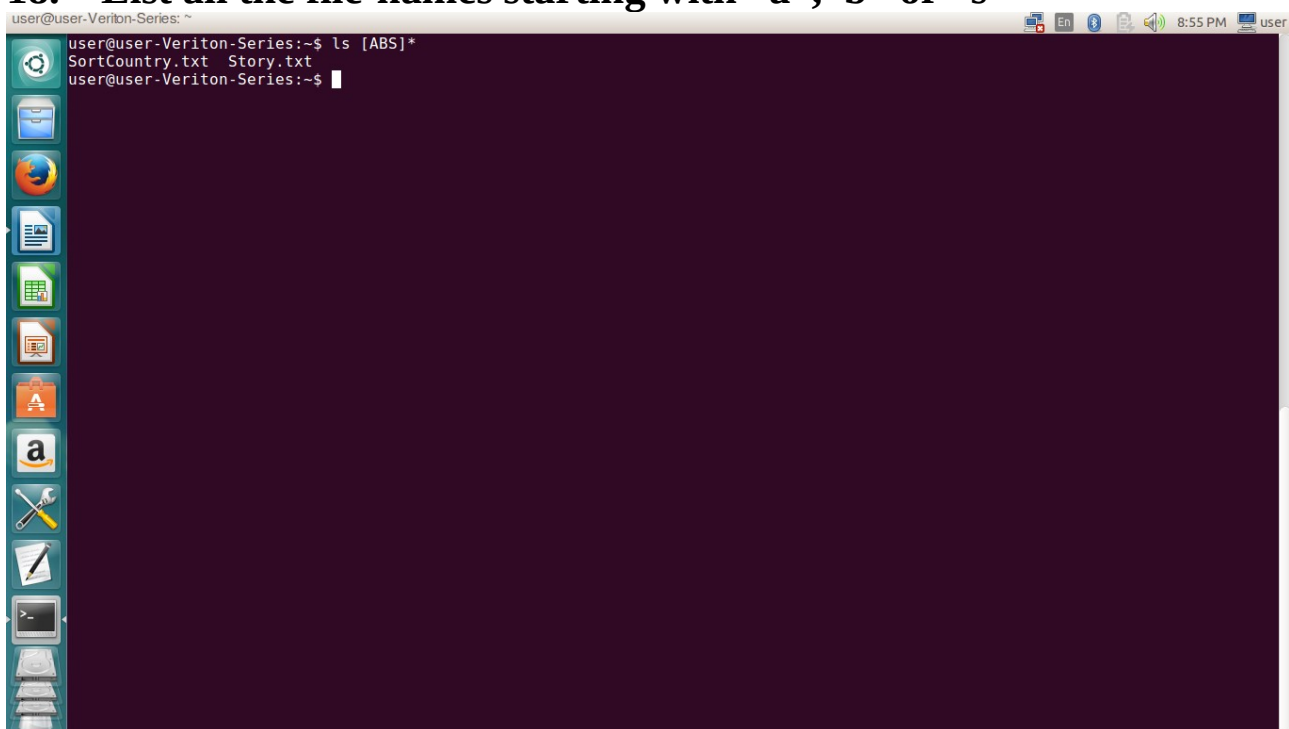
17. List all files in your home directory starting with “s”



A terminal window titled 'user@user-Veriton-Series: ~' with a dark purple background. The left sidebar contains icons for various applications. The terminal shows the following commands and output:

```
user@user-Veriton-Series:~$ ls
CountFile.txt  dir1      FileList.txt  newdir      Pictures  Templates  TuxPaint-Pictures
deja-dup       Documents  itsuserguide.desktop New Mindmap.mm Public     TERMINALS 3  VCD_Copy
Desktop        Downloads  Music         omnitux      s469      testdir    Videos
user@user-Veriton-Series:~$ ls | grep ^s
s469
user@user-Veriton-Series:~$
```

18. List all the file-names starting with “a”, “b” or “s”



A terminal window titled 'user@user-Veriton-Series: ~' with a dark purple background. The left sidebar contains icons for various applications. The terminal shows the following commands and output:

```
user@user-Veriton-Series:~$ ls [ABS]*
SortCountry.txt  Story.txt
user@user-Veriton-Series:~$
```

19. Create two files 'Countries.txt' containing country names and their corresponding capital cities and 'Story.txt' contains some arbitrary lines of text

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ nano Countries.txt  
user@user-Veriton-Series:~$ cat Countries.txt  
Albania Tirana  
Bahrain Manama  
France Paris  
India NewDelhi  
Cuba Havana  
Peru Lima  
Serbia Belgrade  
Mexico Mexico city  
Kuwait Kuwait city  
Denmark Copenhagen  
Nepal Kathmandu  
Uruguay Montevideo  
user@user-Veriton-Series:~$ nano Story.txt  
user@user-Veriton-Series:~$ cat Story.txt  
Freedom,generally,is having an ability to act or change without constraint.A thing is "free" if it can change its state easily a  
nd is not constrained in its present state.  
user@user-Veriton-Series:~$
```

20. Convert all lower case characters from 'Story.txt' to uppercase and store it in a file 'Capstory.txt'

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ nano Story.txt  
user@user-Veriton-Series:~$ cat Story.txt  
Freedom,generally,is having an ability to act or change without constraint.A thing is "free" if it can change its state easily a  
nd is not constrained in its present state.  
user@user-Veriton-Series:~$ (tr a-z A-Z < Story.txt) > Capstory.txt  
user@user-Veriton-Series:~$ cat Capstory.txt  
FREEDOM,GENERALLY,IS HAVING AN ABILITY TO ACT OR CHANGE WITHOUT CONSTRAINT.A THING IS "FREE" IF IT CAN CHANGE ITS STATE EASILY A  
ND IS NOT CONSTRAINED IN ITS PRESENT STATE.  
user@user-Veriton-Series:~$
```

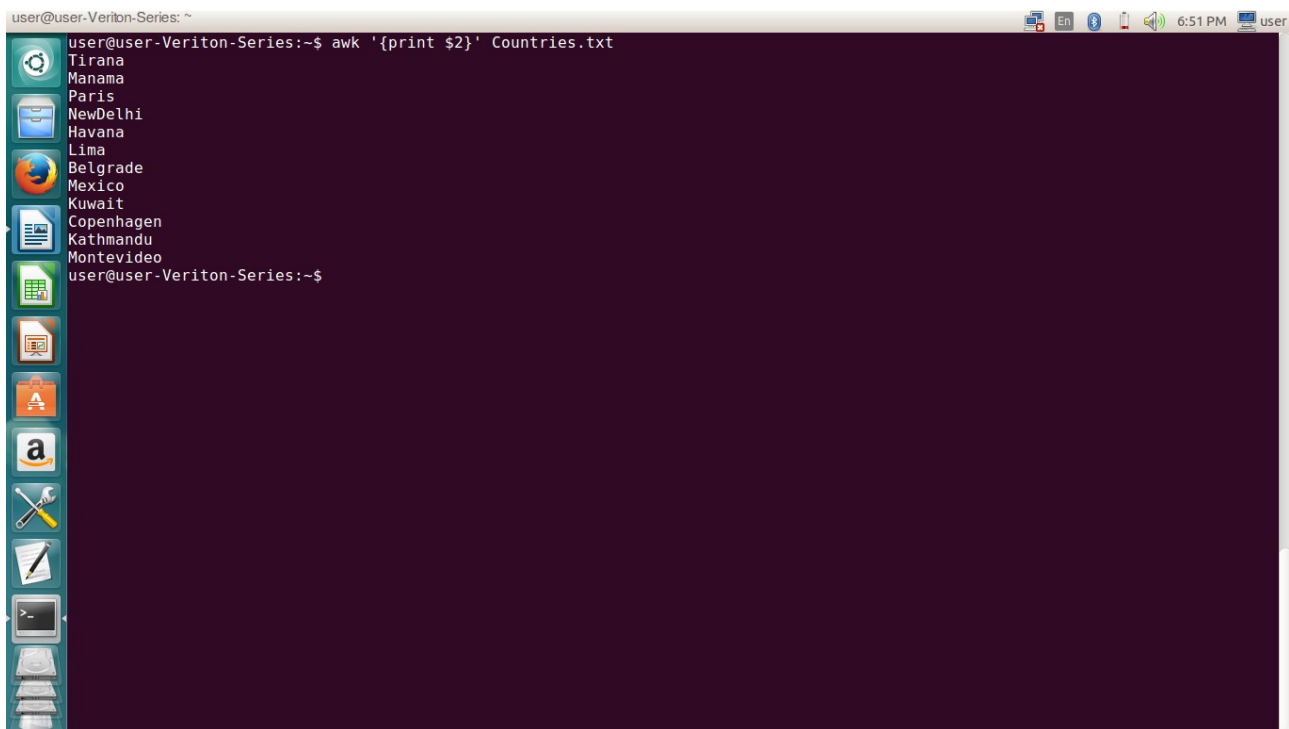
21. Toggle the cases in 'Story.txt' and store it in a file 'Togglestory.txt'

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ cat Capstory.txt  
FREEDOM,GENERALLY,IS HAVING AN ABILITY TO ACT OR CHANGE WITHOUT CONSTRAINT.A THI  
NG IS "FREE" IF IT CAN CHANGE ITS STATE EASILY AND IS NOT CONSTRAINED IN ITS PRE  
SENT STATE.  
user@user-Veriton-Series:~$  
user@user-Veriton-Series:~$ (tr 'a-zA-Z' 'A-Za-z' < Story.txt) > Togglestory.txt  
user@user-Veriton-Series:~$ cat Togglestory.txt  
fREEDOM,GENERALLY,IS HAVING AN ABILITY TO ACT OR CHANGE WITHOUT CONSTRAINT.a THI  
NG IS "FREE" IF IT CAN CHANGE ITS STATE EASILY AND IS NOT CONSTRAINED IN ITS PRE  
SENT STATE.  
user@user-Veriton-Series:~$
```

22. Sort the contents of 'Countries.txt' with capital as the primary sort key and write the sorted output to 'SortCountry.txt'

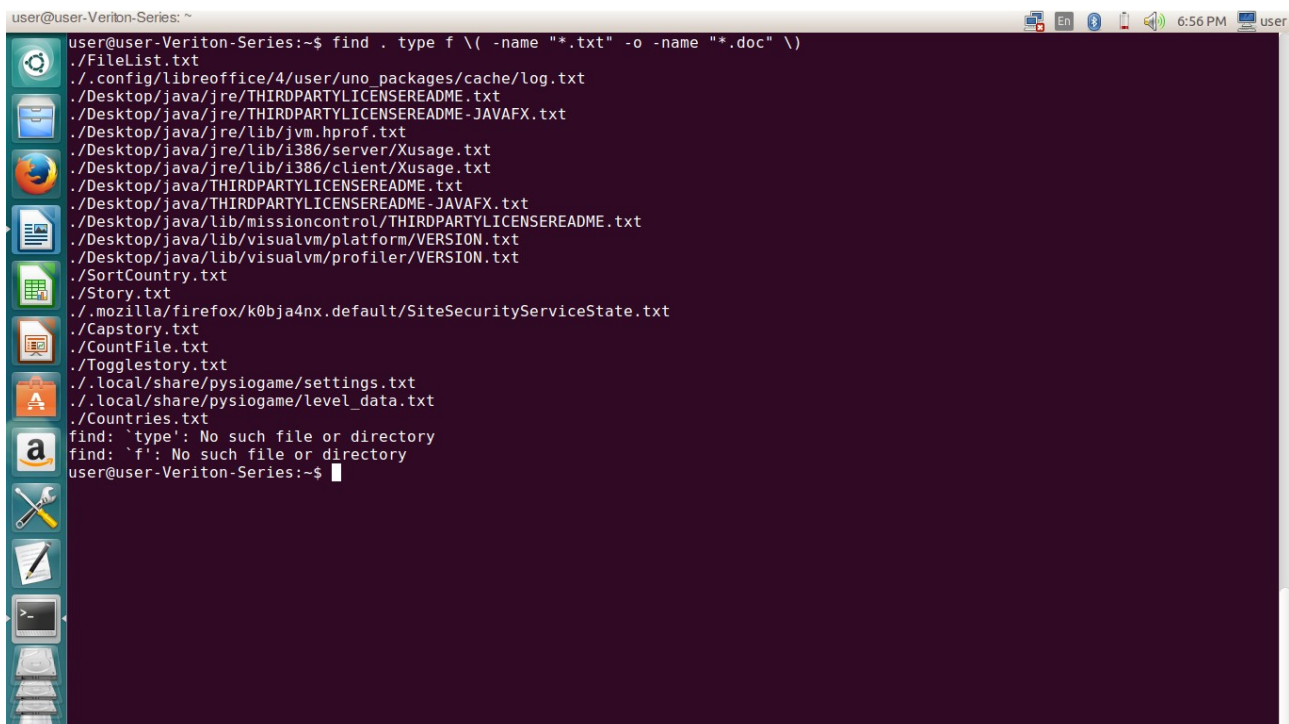
```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ (sort -k2 Countries.txt) > SortCountry.txt  
user@user-Veriton-Series:~$ cat SortCountry.txt  
Serbia Belgrade  
Denmark Copenhagen  
Cuba Havana  
Nepal Kathmandu  
Kuwait Kuwait city  
Peru Lima  
Bahrain Manama  
Mexico Mexico city  
Uruguay Montevideo  
India NewDelhi  
France Paris  
Albania Tirana  
user@user-Veriton-Series:~$
```

23. Display only the capital cities from 'Countries.txt'



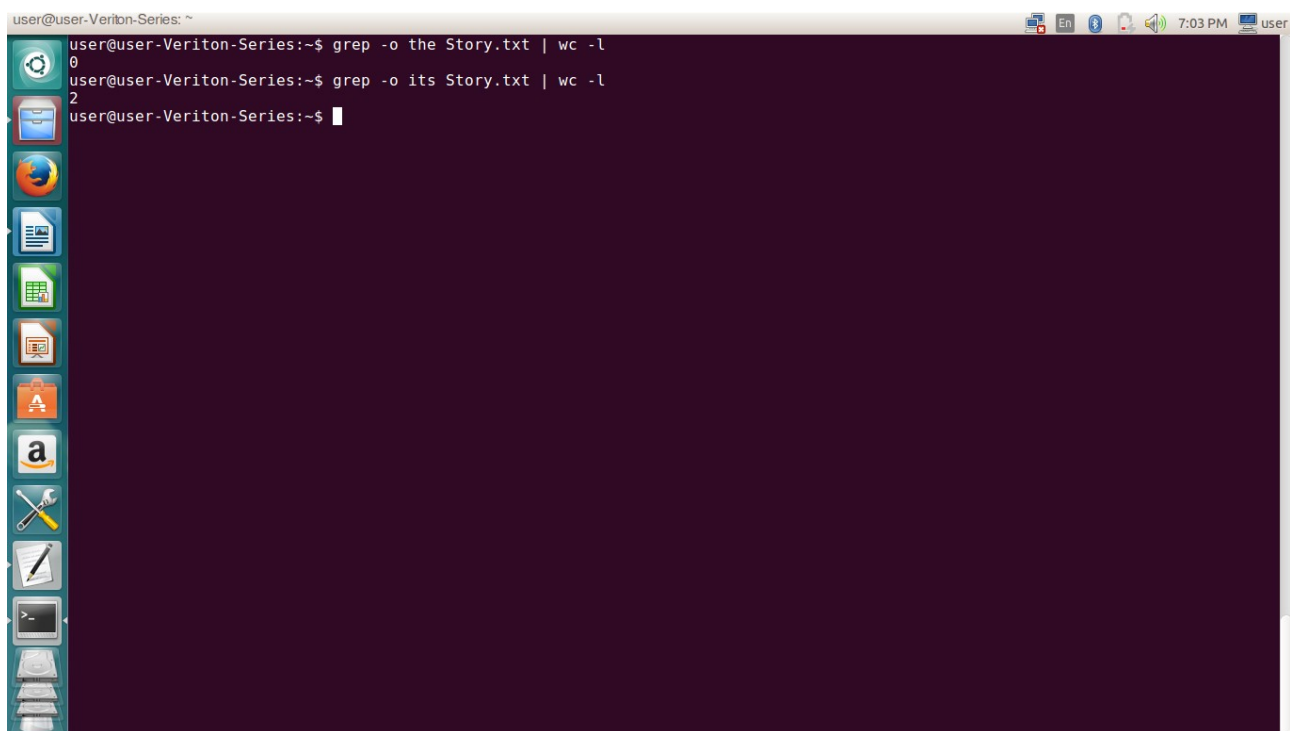
```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ awk '{print $2}' Countries.txt  
Tirana  
Manama  
Paris  
NewDelhi  
Havana  
Lima  
Belgrade  
Mexico  
Kuwait  
Copenhagen  
Kathmandu  
Montevideo  
user@user-Veriton-Series:~$
```

24. Locate all '.txt' and '.doc' files in the current directory



```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ find . type f \( -name "*.txt" -o -name "*.doc" \)  
./FileList.txt  
./config/libreoffice/4/user/uno_packages/cache/log.txt  
./Desktop/java/jre/THIRDPARTYLICENSEREADME.txt  
./Desktop/java/jre/THIRDPARTYLICENSEREADME-JAVAFX.txt  
./Desktop/java/jre/lib/jvm.hprof.txt  
./Desktop/java/jre/lib/i386/server/Xusage.txt  
./Desktop/java/jre/lib/i386/client/Xusage.txt  
./Desktop/java/THIRDPARTYLICENSEREADME.txt  
./Desktop/java/THIRDPARTYLICENSEREADME-JAVAFX.txt  
./Desktop/java/lib/missioncontrol/THIRDPARTYLICENSEREADME.txt  
./Desktop/java/lib/visualvm/platform/VERSION.txt  
./Desktop/java/lib/visualvm/profiler/VERSION.txt  
./SortCountry.txt  
./Story.txt  
./mozilla/firefox/k0bja4nx.default/SecurityServiceState.txt  
./Capstory.txt  
./CountFile.txt  
./Togglestory.txt  
./local/share/pysio game/settings.txt  
./local/share/pysio game/level_data.txt  
./Countries.txt  
find: 'type': No such file or directory  
find: 'f': No such file or directory  
user@user-Veriton-Series:~$
```

25. Count the number of occurrences of 'the' in 'Story.txt'

A terminal window titled 'user@user-Veriton-Series: ~' with a dark purple background. The window shows the execution of two commands. The first command, 'grep -o the Story.txt | wc -l', returns the output '0'. The second command, 'grep -o its Story.txt | wc -l', returns the output '2'. The terminal has a vertical toolbar on the left with icons for various applications like a file manager, web browser, and office suite. The top status bar shows system icons and the time '7:03 PM'.

```
user@user-Veriton-Series: ~  
user@user-Veriton-Series:~$ grep -o the Story.txt | wc -l  
0  
user@user-Veriton-Series:~$ grep -o its Story.txt | wc -l  
2  
user@user-Veriton-Series:~$
```