

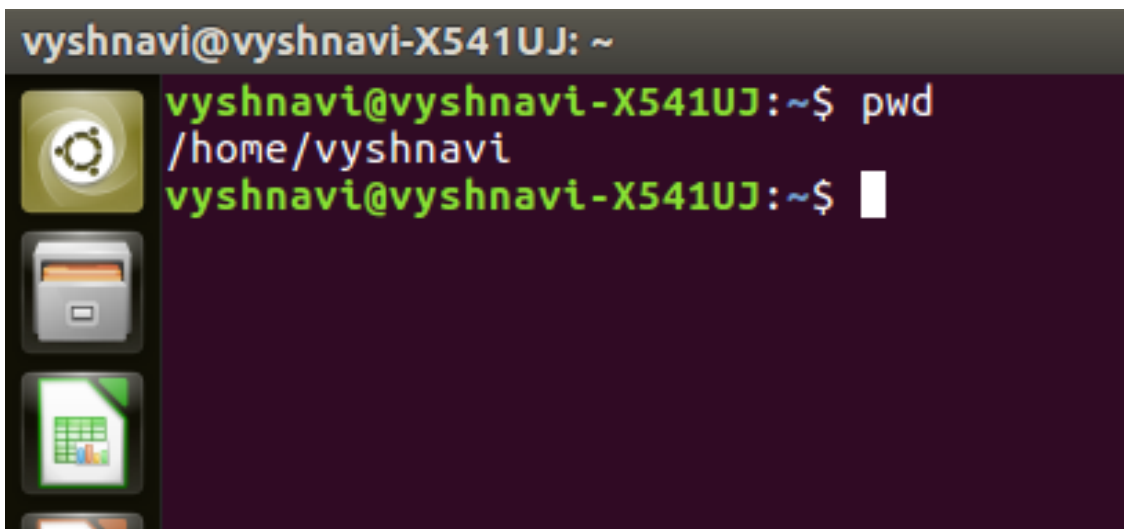
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Practice Questions – Cycle 1

Write necessary linux commands for the following.

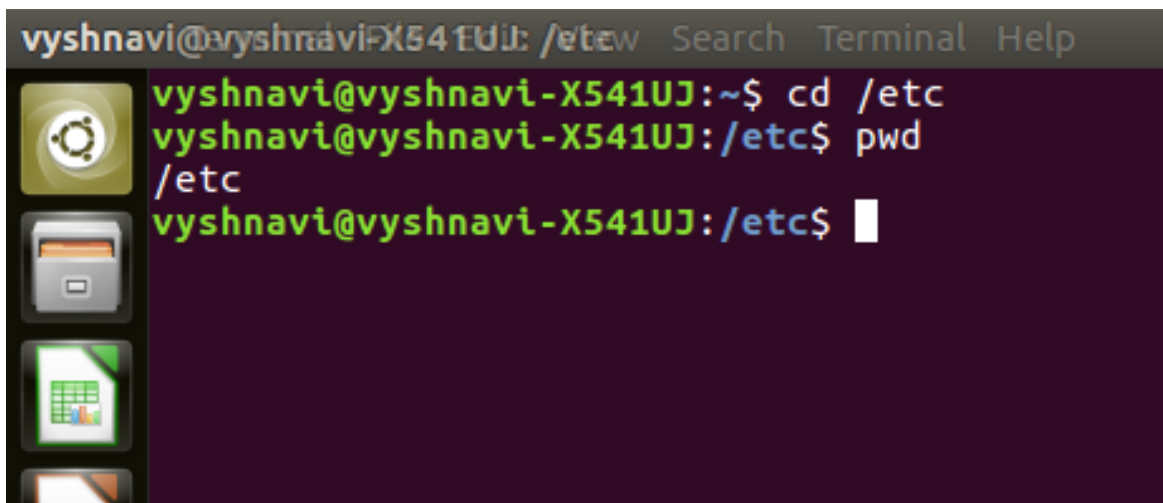
Prepare a report including the question, and screenshot of the command along with the output for each command.

1.Display your current directory

A terminal window with a dark purple background. The title bar reads 'vyshnavi@vyshnavi-X541UJ: ~'. On the left, there is a vertical dock with four icons: a gear, a folder, a document with a bar chart, and a document. The terminal text shows the user typing 'pwd' and receiving the output '/home/vyshnavi'.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ pwd  
/home/vyshnavi  
vyshnavi@vyshnavi-X541UJ:~$
```

2.Change to the /etc directory

A terminal window with a dark purple background. The title bar reads 'vyshnavi@vyshnavi-X541UJ: /etc' followed by 'Search Terminal Help'. On the left, there is a vertical dock with four icons: a gear, a folder, a document with a bar chart, and a document. The terminal text shows the user typing 'cd /etc', then 'pwd', and receiving the output '/etc'.

```
vyshnavi@vyshnavi-X541UJ: /etc Search Terminal Help  
vyshnavi@vyshnavi-X541UJ:~$ cd /etc  
vyshnavi@vyshnavi-X541UJ:/etc$ pwd  
/etc  
vyshnavi@vyshnavi-X541UJ:/etc$
```

3.Now, change to your home directory using a single command.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ cd /etc  
vyshnavi@vyshnavi-X541UJ:/etc$ pwd  
/etc  
vyshnavi@vyshnavi-X541UJ:/etc$ cd ~  
vyshnavi@vyshnavi-X541UJ:~$ pwd  
/home/vyshnavi  
vyshnavi@vyshnavi-X541UJ:~$
```

4.Change to the parent directory of the current directory

```
vyshnavi@vyshnavi-X541UJ: /home Search Terminal Help  
vyshnavi@vyshnavi-X541UJ:~$ cd ..  
vyshnavi@vyshnavi-X541UJ:/home$ pwd  
/home  
vyshnavi@vyshnavi-X541UJ:/home$
```

5.Go to the root directory

```
vyshnavi@vyshnavi-X541UJ: /  
vyshnavi@vyshnavi-X541UJ:~$ cd /  
vyshnavi@vyshnavi-X541UJ:/ $ pwd  
/  
vyshnavi@vyshnavi-X541UJ:/ $
```

6.Give a long listing of the root directory

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls  
100.c      17.c      25.c      8.c.save  
100.c.save 18.c      26.c      a.c  
10.c       19.c      27.c      a.out  
11.c       1.c       2.c       bd.c  
12.c       200.c     3.c       bd.c.save  
13.c       20.c     4.c       bd.c.save.1  
13.c.save  21.c     5.c       binary.c  
14.c       22.c     6.c       binary.c.save  
15.c       23.c     7.c       binary.c.save.1  
16.c       24.c     8.c       bubble.c  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls | tail -10  
ten.c  
ter.c  
Untitled 1.odt  
Untitled Document  
Videos  
vyshnavi.zip  
w.c  
while.c  
x.c  
y1.c  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ pwd  
/home/vyshnavi  
vyshnavi@vyshnavi-X541UJ:~$ ls /etc  
acpi                  ca-certificates      dictionaries-common  gshadow  
adduser.conf          ca-certificates.conf dnsmasq.d            gshadow-  
alternatives          calendar              doc-base             gss  
anacrontab            compizconfig          dpkg                  gtk-2.0  
apg.conf              console-setup         drirc                 gtk-3.0  
apm                   cracklib              emacs                 guest-session  
apparmor              cron.d                environment           hdpam.conf  
apparmor.d            cron.daily            event.d              host.conf  
appost                cron.hourly           firefox              hostname  
appstream.conf        cron.monthly          fonts                hosts  
apt                   cron.monthly          fstab                hosts.allow  
aptdaemon             cron.tab              fuse.conf            hosts.deny  
at-spi2               cron.weekly           fwupd.conf           hp  
avahi                 cups                  gal.conf             ifplugd  
bash.bashrc           cupshelpers           gconf                iftab  
bash_completion       dbus-1                gdb                   ImageMagick-6  
bash_completion.d     dconf                 ghostscript           init  
bindresvport.blacklist debconf.conf          gnome                 init.d  
binfmt.d              debian_version        gnome-app-install    initramfs-tools  
bluetooth             default               groff                 inputrc  
brlapi.key            deluser.conf          group                 inserv  
brltty                depmod.d              group-                inserv.conf  
brltty.conf           dhcp                  grub.d                inserv.conf.d  
vyshnavi@vyshnavi-X541UJ:~$
```

9. Create a directory testdir in your home directory.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ mkdir testdir  
vyshnavi@vyshnavi-X541UJ:~$ ls  
100.c      17.c  25.c  8.c.save  bubblesort.c  Desktop  gate.c  lbs.c  post.c  
100.c.save 18.c  26.c  a.c       c1.c          Documents  inoutrestr.c  linear.c  pre.c  
10.c       19.c  27.c  a.out     cc.c          Downloads  inoutrestr.c.save  matrix.c  prefix.c  
11.c       1.c   2.c   bd.c      circular.c    e1.c      inoutrestr.c.save.1  multi.c  ps.c.save  
12.c       200.c 3.c   bd.c.save class2.c      e2.c      insertion.c  nano.save  ps.c.save  
13.c       20.c  4.c   bd.c.save.1 class3.c      esc.c     lab11.c     oola.c    puts.c  
13.c.save  21.c  5.c   binary.c  class4.c     examples.desktop  lab11.c.save  pgm1.c   q13.c  
14.c       22.c  6.c   binary.c.save class5.c      for.c      lab11.c.save.1  pgm.c    q14.c  
15.c       23.c  7.c   binary.c.save.1 class.c      function.c  lab13.c     q14.c  
16.c       24.c  8.c   bubble.c  class.c.save function.c.save lab cycle   Pictures   q15.c  
vyshnavi@vyshnavi-X541UJ:~$
```

10. Change to the /etc directory, stay there and create a directory newdir in your home directory(using a single command).

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ cd /etc  
vyshnavi@vyshnavi-X541UJ:/etc$ mkdir ~/mkdir  
vyshnavi@vyshnavi-X541UJ:/etc$ cd ~  
vyshnavi@vyshnavi-X541UJ:~$ ls  
100.c      17.c      25.c      8.c.save   bubblesort.c Desktop    gate.c      lbs.c      Pictures  
100.c.save 18.c      26.c      a.c        c1.c       Documents inoutrestr.c linear.c    post.c  
10.c        19.c      27.c      a.out      cc.c       Downloads inoutrestr.c.save matrix.c   pre.c  
11.c        1.c       2.c       bd.c       class2.c   e1.c      inoutrestr.c.save.1 mkdir     prefix.c  
12.c        200.c     3.c       bd.c.save  class3.c   e2.c      insertion.c lab11.c    multi.c   ps.c.save  
13.c        20.c      4.c       bd.c.save.1 class4.c   esc.c     lab11.c     Music     nano.save ps.c.save.1  
13.c.save  21.c      5.c       binary.c   class5.c   examples.desktop lab11.c.save nano.save  puts.c  
14.c        22.c      6.c       binary.c.save class.c     for.c     lab11.c.save.1 oola.c    q13.c  
15.c        23.c      7.c       binary.c.save.1 class.c.save function.c lab13.c    pgm.c     q14.c  
16.c        24.c      8.c       bubble.c   class.c.save function.c.save lab_cycle  pgm.c  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ mkdir -p ~/dir1/dir2/dir3  
vyshnavi@vyshnavi-X541UJ:~$ ls dir1  
dir2  
vyshnavi@vyshnavi-X541UJ:~$ ls dir1/dir2  
dir3  
vyshnavi@vyshnavi-X541UJ:~$
```

12.Display the calendar for April 2019.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ cal April 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  
vyshnavi@vyshnavi-X541UJ:~$
```

13.Display that ‘There are files in my current directory’. The ...should

be filled with the count of the files.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ echo there are $(ls | wc -l)files  
there are 138files  
vyshnavi@vyshnavi-X541UJ:~$ ls  
100.c      17.c      25.c      8.c.save   bubblesort.c Desktop  
100.c.save 18.c      26.c      a.c        c1.c       dir1  
10.c       19.c      27.c      a.out      cc.c       Documents  
11.c       1.c       2.c       bd.c       circular.c Downloads  
12.c       200.c     3.c       bd.c.save  class2.c   e1.c  
13.c       20.c     4.c       bd.c.save.1 class3.c   e2.c  
13.c.save  21.c     5.c       binary.c   class4.c   esc.c  
14.c       22.c     6.c       binary.c.save class5.c   examples.des  
15.c       23.c     7.c       binary.c.save.1 class.c    for.c  
16.c       24.c     8.c       bubble.c   class.c.save function.c  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls -a ~  
.          200.c     .9.c.swp   c1.c  
..         20.c     a.c        .cache  
100.c      21.c     .a.c.swp   cc.c  
100.c.save 22.c     a.out      circular.c  
.100.c.swp 23.c     .bash_history class2.c  
10.c       24.c     .bash_logout class3.c  
11.c       25.c     .bashrc    .class3.c.swp  
12.c       26.c     bd.c       class4.c  
.12.c.swp  27.c     bd.c.save  class5.c  
13.c       2.c      bd.c.save.1 class.c  
13.c.save  3.c      .bd.c.swp  class.c.save  
14.c       4.c      binary.c   .compiz  
15.c       .4.c.swp binary.c.save .config  
16.c       5.c      binary.c.save.1 Desktop  
17.c       6.c      .binary.c.swp dir1  
18.c       7.c      bubble.c   .dmrc  
19.c       8.c      .bubble.c.swp Documents  
1.c        8.c.save bubblesort.c Downloads  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls -a ~ > FileList.txt  
vyshnavi@vyshnavi-X541UJ:~$ cat FileList.txt  
.  
..  
100.c  
100.c.save  
.100.c.swp  
10.c  
11.c  
12.c  
.12.c.swp  
13.c  
13.c.save  
14.c  
15.c  
16.c  
17.c  
18.c  
19.c  
1.c  
200.c  
20.c  
21.c  
22.c  
23.c
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ wc -l FileList.txt > CountFile.txt  
vyshnavi@vyshnavi-X541UJ:~$ cat CountFile.txt  
190 FileList.txt  
vyshnavi@vyshnavi-X541UJ:~$
```

17. List all the files in your home directory starting with 's'.

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls  
100.c      17.c      25.c      8.c.save   bubblesort.c  Co  
100.c.save 18.c      26.c      a.c        c1.c          De  
10.c       19.c      27.c      a.out      cc.c          di  
11.c       1.c       2.c       bd.c       circular.c    Do  
12.c       200.c     3.c       bd.c.save  class2.c     Do  
13.c       20.c     4.c       bd.c.save.1 class3.c     e1  
13.c.save  21.c     5.c       binary.c   class4.c     e2  
14.c       22.c     6.c       binary.c.save class5.c     es  
15.c       23.c     7.c       binary.c.save.1 class.c     ex  
16.c       24.c     8.c       bubble.c   class.c.save Fi  
vyshnavi@vyshnavi-X541UJ:~$ ls | grep ^s  
selection.c  
sort1.c  
sort1.c.save  
sort2.c  
sort.c  
sort.c.save  
sort.c.save.1  
sp.c.save  
sp.c.save.1  
sprint.c  
stack.c  
str1.c  
str1.c.save  
str1.c.save.1  
str.c  
string1.c  
switch.c  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ ls [abs]*  
a.c      bd.c      bd.c.save.1  binary.c.save  bubble.c      selection.c  sort1.c.save  sort.c  
sort.c.save.1  sp.c.save.1  stack.c      str1.c         str1.c.save.1  string1.c  
a.out      bd.c.save  binary.c     binary.c.save.1  bubblesort.c  sort1.c     sort2.c       sort.c.save  
sp.c.save    sprint.c    story.txt    str1.c.save    str.c         switch.c  
vyshnavi@vyshnavi-X541UJ:~$
```


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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ nano countries.txt  
vyshnavi@vyshnavi-X541UJ:~$ cat countries.txt  
  
Country                Capital city  
Afghanistan            Kabul  
Albania                 Tirana  
Algeria                 Algiers  
Andorra                 Andorra la Vella  
Angola                 Luanda  
Antigua and Barbud     Saint John's  
Argentina               Buenos Aires  
Armenia                 Yerevan  
Australia               Canberra  
Azerbaijan             Baku  
vyshnavi@vyshnavi-X541UJ:~$ nano story.txt  
vyshnavi@vyshnavi-X541UJ:~$ cat story.txt  
Pinku, a little squirrel was fond of placing bets with her friend Tutu parrot. However she always f
```

```
Pinku, a little squirrel was fond of placing bets with her friend Tutu parrot. However she always felt disappointed, as she  
in return.  
All her friends advised her to avoid any further betting but Pinku used to remain silent with a faint smile.  
Tutu had lost one of his paws in a sharp dense bush. Some of his wings had also been damaged, so he used to move with great  
The entire group of squirrels always made fun of Pinku as she had not won even a single bet against Tutu.  
There was a lot of activity and buzz around the jungle as winner of annual award for "LOVING AND KIND HEARTED SOUL" was to  
Everyone in the forest was quite sure that like previous two years, the award was expected to go to Melody sparrow. Melody  
whenever anyone needed her help.  
When the winner was announced, the result was not surprising at all. The Jury had declared Melody as winner.  
Melody was called on the stage to receive her prize. When she arrived on stage, she announced-" I think, Pinku is a deserv  
Everyone got surprised by this unexpected announcement.  
King lion asked her-"but why?"  
"Everyone knows that Tutu needs help because of his physical shortcomings. He even needs support to arrange his food. No one  
"But no one has ever noticed that Pinku places a bet with Tutu everyday only to lose and share her nuts with him."  
Melody stopped and then said-" Has anyone ever thought why such a sharp squirrel who can run so fast loses a bet every sing  
I bet no one here can defeat Pinku so easily..  
The emotional words of Melody moved everyone to tears and everybody looked back to find Pinku standing in a corner gladly s  
And Then king Lion announced-"Come here Pinku. You deserve this award."  
Pinku smiled at Tutu and together they strolled towards the stage to receive the prize.  
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ:~$ (tr a-z A-Z < story.txt) > Capstory.txt
vyshnavi@vyshnavi-X541UJ:~$ cat Capstory.txt
PINKU, A LITTLE SQUIRREL WAS FOND OF PLACING BETS WITH HER FRIEND TUTU
IN RETURN.

ALL HER FRIENDS ADVISED HER TO AVOID ANY FURTHER BETTING BUT PINKU USED
TUTU HAD LOST ONE OF HIS PAWS IN A SHARP DENSE BUSH. SOME OF HIS WINGS
THE ENTIRE GROUP OF SQUIRRELS ALWAYS MADE FUN OF PINKU AS SHE HAD NOT W
THERE WAS A LOT OF ACTIVITY AND BUZZ AROUND THE JUNGLE AS WINNER OF ANN
EVERYONE IN THE FOREST WAS QUITE SURE THAT LIKE PREVIOUS TWO YEARS, THE
WHENEVER ANYONE NEEDED HER HELP.

WHEN THE WINNER WAS ANNOUNCED, THE RESULT WAS NOT SURPRISING AT ALL. TH
MELODY WAS CALLED ON THE STAGE TO RECEIVE HER PRIZE. WHEN SHE ARRIVED O
EVERYONE GOT SURPRISED BY THIS UNEXPECTED ANNOUNCEMENT.

KING LION ASKED HER-"BUT WHY?"

"EVERYONE KNOWS THAT TUTU NEEDS HELP BECAUSE OF HIS PHYSICAL SHORTCOMIN
```

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

```
vyshnavi@vyshnavi-X541UJ: ~
vyshnavi@vyshnavi-X541UJ:~$ (tr 'a-zA-Z' 'A-Za-z' < story.txt) > Togglestory.txt
vyshnavi@vyshnavi-X541UJ:~$ cat Togglestory.txt
pINKU, A LITTLE SQUIRREL WAS FOND OF PLACING BETS WITH HER FRIEND TUTU PARROT. HOWEVER S
T. pOOR pINKU WAS FORCED TO OFFER FIVE OF HER FAVORITE NUTS
IN RETURN.

aLL HER FRIENDS ADVISED HER TO AVOID ANY FURTHER BETTING BUT pINKU USED TO REMAIN SILENT
tUTU HAD LOST ONE OF HIS PAWS IN A SHARP DENSE BUSH. sOME OF HIS WINGS HAD ALSO BEEN DAM
LTY.

tHE ENTIRE GROUP OF SQUIRRELS ALWAYS MADE FUN OF pINKU AS SHE HAD NOT WON EVEN A SINGLE
tHERE WAS A LOT OF ACTIVITY AND BUZZ AROUND THE JUNGLE AS WINNER OF ANNUAL AWARD FOR "Lo
eVERYONE IN THE FOREST WAS QUITE SURE THAT LIKE PREVIOUS TWO YEARS, THE AWARD WAS EXPECT
D THE JUNGLE AS KIND AND NOBLE SOUL. sHE WAS ALWAYS PRESENT
WHENEVER ANYONE NEEDED HER HELP.

WHEN THE WINNER WAS ANNOUNCED, THE RESULT WAS NOT SURPRISING AT ALL. tHE iURY HAD DECLAR
```

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

```
vyshnavi@vyshnavi-X541UJ:~$ (sort -k2 countries.txt) > Sortcountry.txt
vyshnavi@vyshnavi-X541UJ:~$ cat sortcountry.txt
cat: sortcountry.txt: No such file or directory
vyshnavi@vyshnavi-X541UJ:~$ cat Sortcountry.txt

Algeria          Algiers
Antigua and Barbud Saint John's
Andorra          Andorra la Vella
Azerbaijan       Baku
Argentina        Buenos Aires
Australia        Canberra
Country          Capital city
Afghanistan       Kabul
Angola           Luanda
Albania           Tirana
Armenia           Yerevan
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ:~$ awk '{print $2}' countries.txt

Capital
Kabul
Tirana
Algiers
Andorra
Luanda
and
Buenos
Yerevan
Canberra
Baku
vyshnavi@vyshnavi-X541UJ:~$
```

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

```
vyshnavi@vyshnavi-X541UJ: ~  
vyshnavi@vyshnavi-X541UJ:~$ find . -type f \( -name "*.txt" -o -name "*.doc" \)  
./.thunderbird/j4pafa7s.default/AlternateServices.txt  
./.thunderbird/j4pafa7s.default/revocations.txt  
./.thunderbird/j4pafa7s.default/SecurityPreloadState.txt  
./.thunderbird/j4pafa7s.default/SiteSecurityServiceState.txt  
./story.txt  
./.mozilla/firefox/hirvsdzq.default/serviceworker.txt  
./.mozilla/firefox/hirvsdzq.default/AlternateServices.txt  
./.mozilla/firefox/hirvsdzq.default/revocations.txt  
./.mozilla/firefox/hirvsdzq.default/SecurityPreloadState.txt  
./.mozilla/firefox/hirvsdzq.default/SiteSecurityServiceState.txt  
./.mozilla/firefox/hirvsdzq.default/weave/logs/error-sync-1550682930011.txt  
./FileList.txt  
./Downloads/Quiz Game Mini Project in C/READ ME FIRST !!! .txt
```

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

```
vyshnavi@vyshnavi-X541UJ:~$ grep -o the story.txt | wc -l  
14  
vyshnavi@vyshnavi-X541UJ:~$
```

CONCLUSION:

Practical cycle have been completed using ubuntu 16.04