

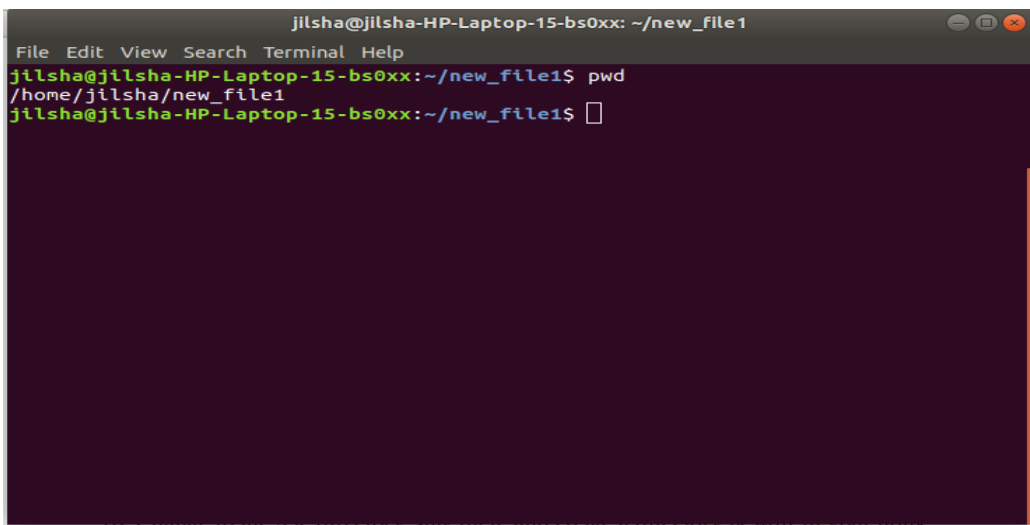
PRACTICE QUESTIONS – CYCLE 1

DATE:-22/2/2019

JILSHA M K
ROLL NO:-36
S4-CSE

Q:- 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.

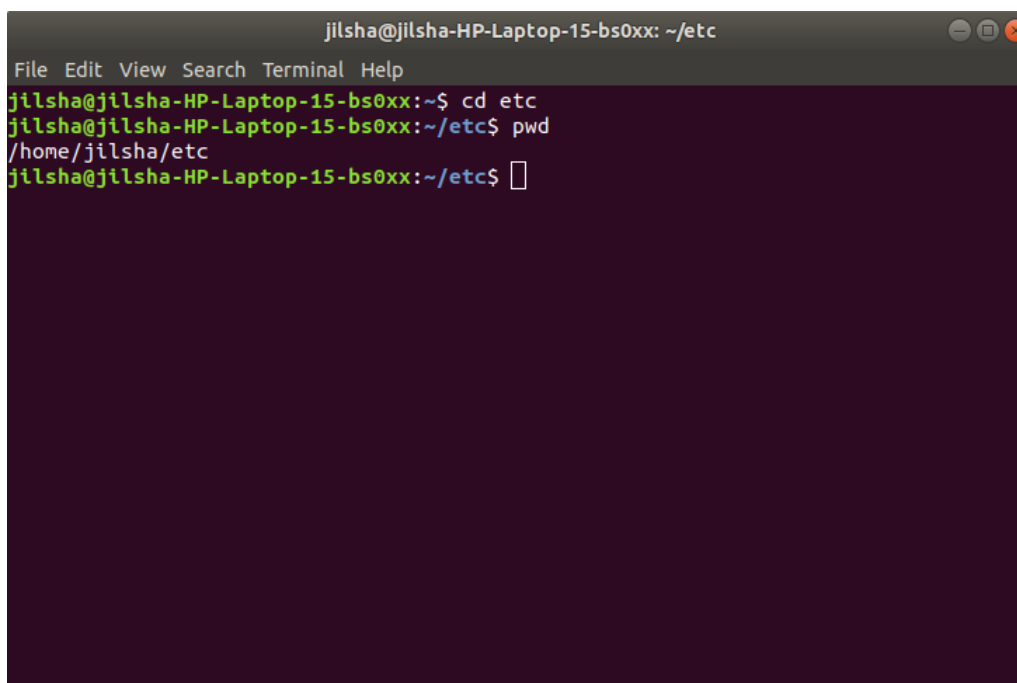
1. Display your current directory.



```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~/new_file1
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~/new_file1$ pwd
/home/jilsha/new_file1
jilsha@jilsha-HP-Laptop-15-bs0xx:~/new_file1$
```

The screenshot shows a terminal window titled "jilsha@jilsha-HP-Laptop-15-bs0xx: ~/new_file1". The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The user has entered the command "pwd" and the output is "/home/jilsha/new_file1". The prompt is "jilsha@jilsha-HP-Laptop-15-bs0xx:~/new_file1\$".

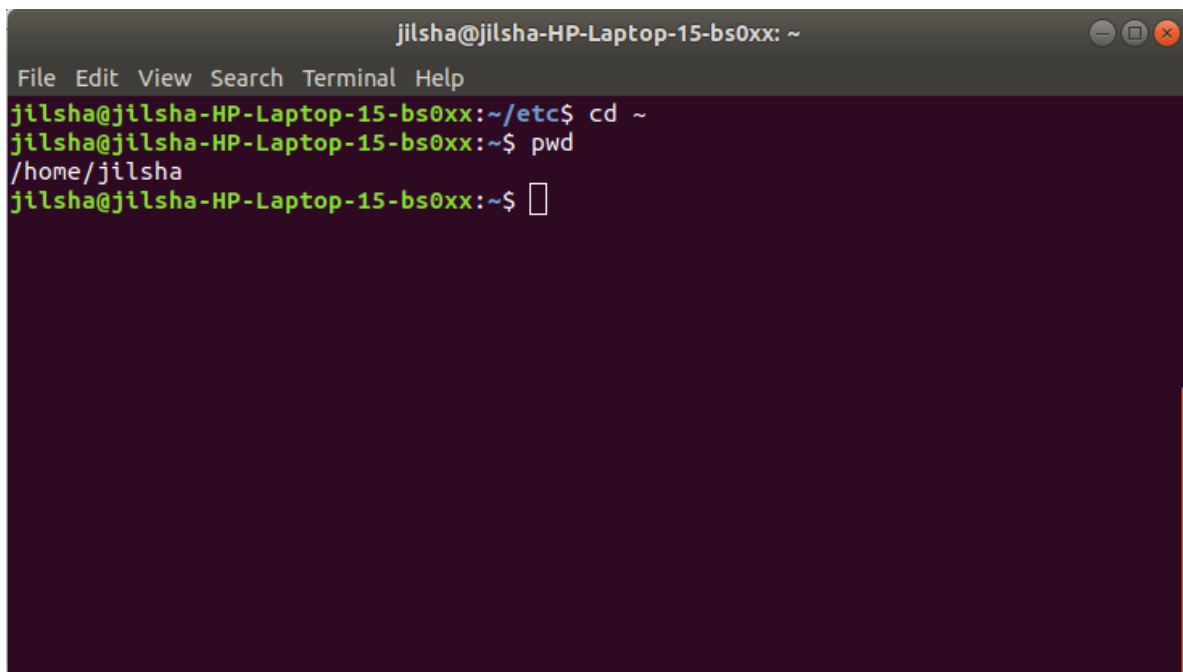
2. Change to the /etc directory.



```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~/etc
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cd etc
jilsha@jilsha-HP-Laptop-15-bs0xx:~/etc$ pwd
/home/jilsha/etc
jilsha@jilsha-HP-Laptop-15-bs0xx:~/etc$
```

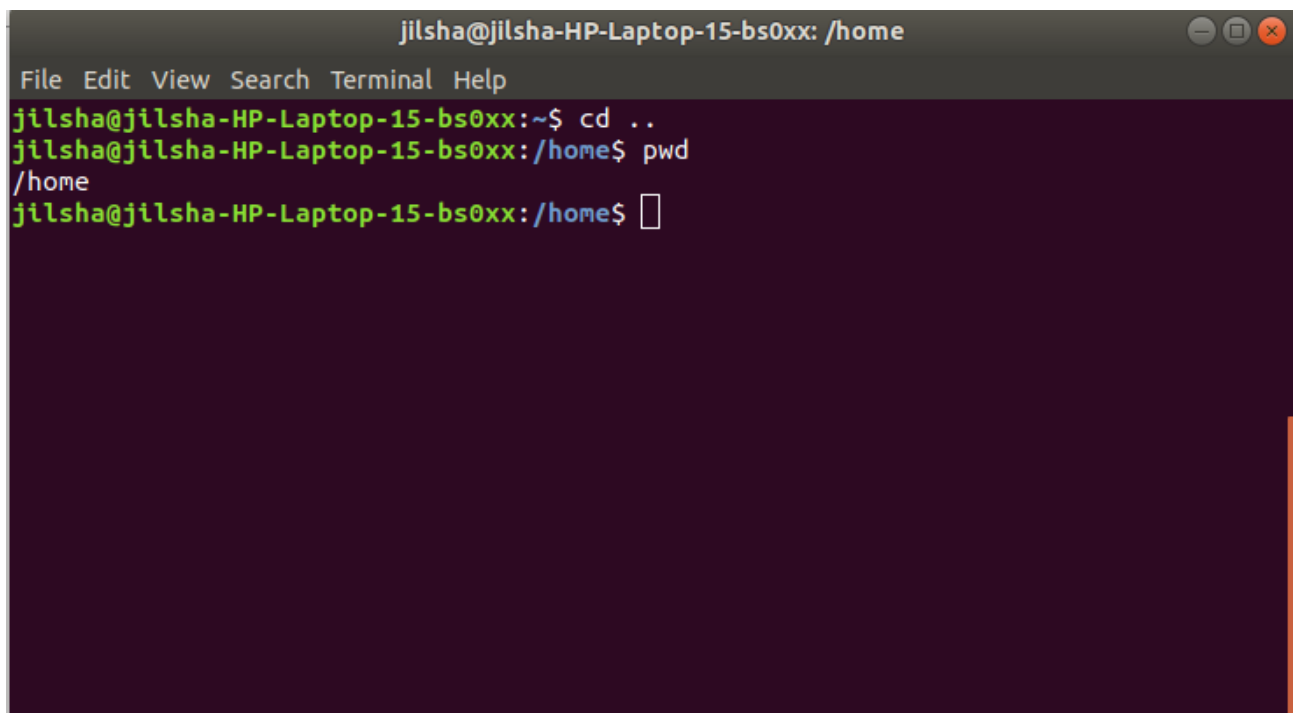
The screenshot shows a terminal window titled "jilsha@jilsha-HP-Laptop-15-bs0xx: ~/etc". The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The user has entered the command "cd etc" and the prompt has changed to "jilsha@jilsha-HP-Laptop-15-bs0xx:~/etc\$". The user then enters the command "pwd" and the output is "/home/jilsha/etc". The prompt is "jilsha@jilsha-HP-Laptop-15-bs0xx:~/etc\$".

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

A terminal window titled 'jilsha@jilsha-HP-Laptop-15-bs0xx: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

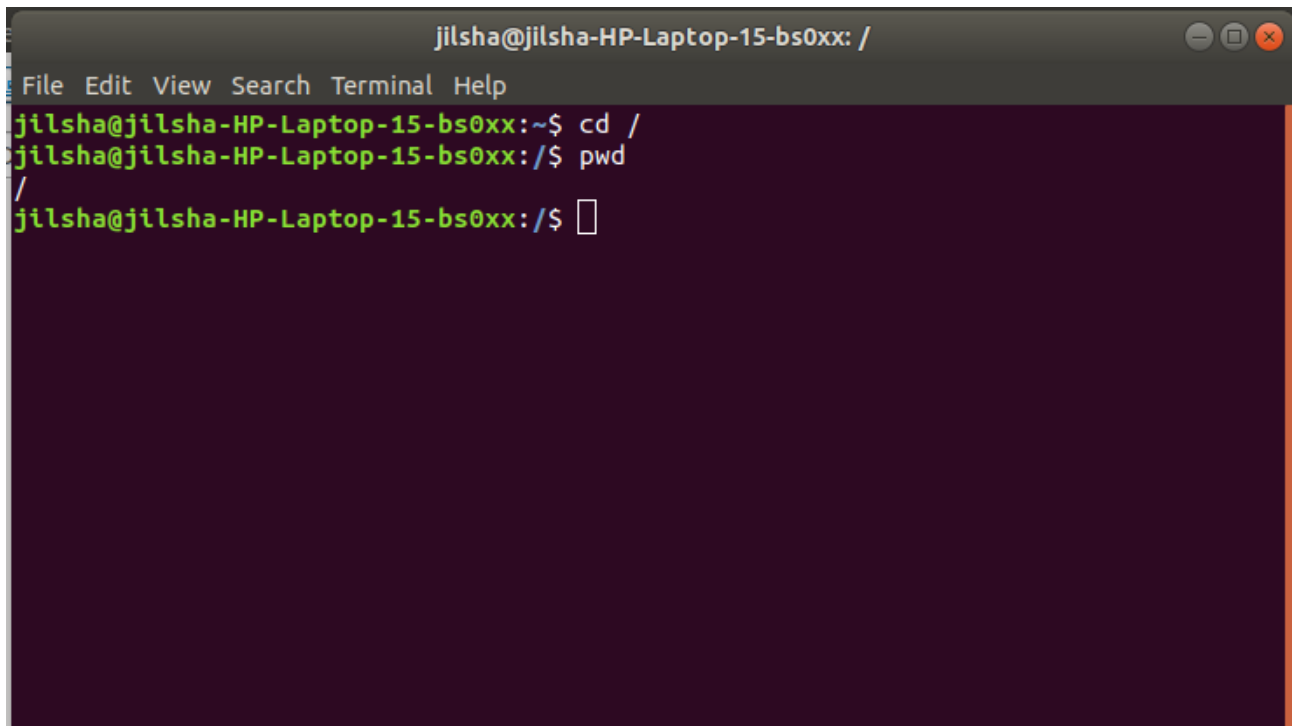
```
jilsha@jilsha-HP-Laptop-15-bs0xx:~/etc$ cd ~
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ pwd
/home/jilsha
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

4. Change to the parent directory of the current directory.

A terminal window titled 'jilsha@jilsha-HP-Laptop-15-bs0xx: /home' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

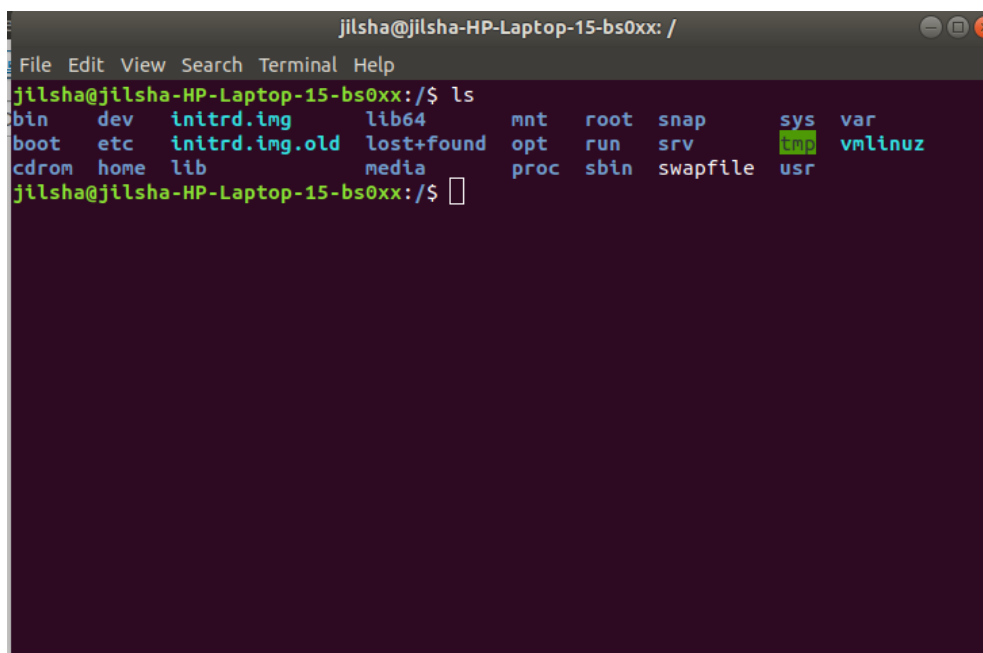
```
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cd ..
jilsha@jilsha-HP-Laptop-15-bs0xx:/home$ pwd
/home
jilsha@jilsha-HP-Laptop-15-bs0xx:/home$
```

5. Go to the root directory.

A terminal window titled 'jilsha@jilsha-HP-Laptop-15-bs0xx: /' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'jilsha@jilsha-HP-Laptop-15-bs0xx:~\$'. The user enters 'cd /' and the prompt changes to 'jilsha@jilsha-HP-Laptop-15-bs0xx:/\$. The user then enters 'pwd' and the output is '/'. The prompt returns to 'jilsha@jilsha-HP-Laptop-15-bs0xx:/\$.

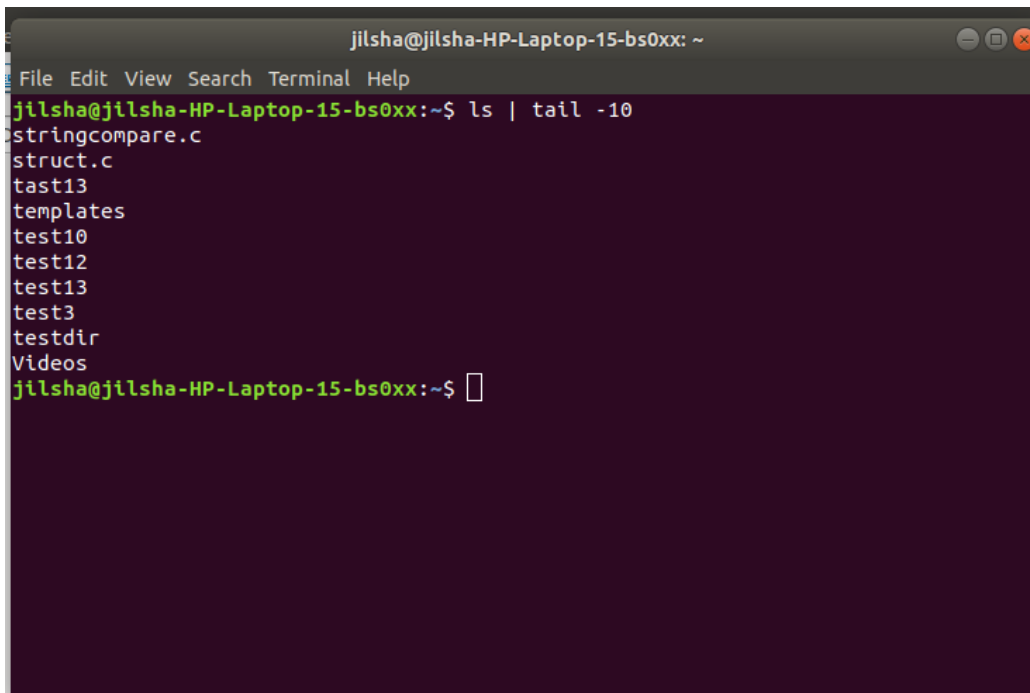
```
jilsha@jilsha-HP-Laptop-15-bs0xx: /
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cd /
jilsha@jilsha-HP-Laptop-15-bs0xx:/ $ pwd
/
jilsha@jilsha-HP-Laptop-15-bs0xx:/ $
```

6. Give a long listing of the root directory.

A terminal window titled 'jilsha@jilsha-HP-Laptop-15-bs0xx: /' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'jilsha@jilsha-HP-Laptop-15-bs0xx:/\$. The user enters 'ls' and the output is a long listing of the root directory. The prompt returns to 'jilsha@jilsha-HP-Laptop-15-bs0xx:/\$.

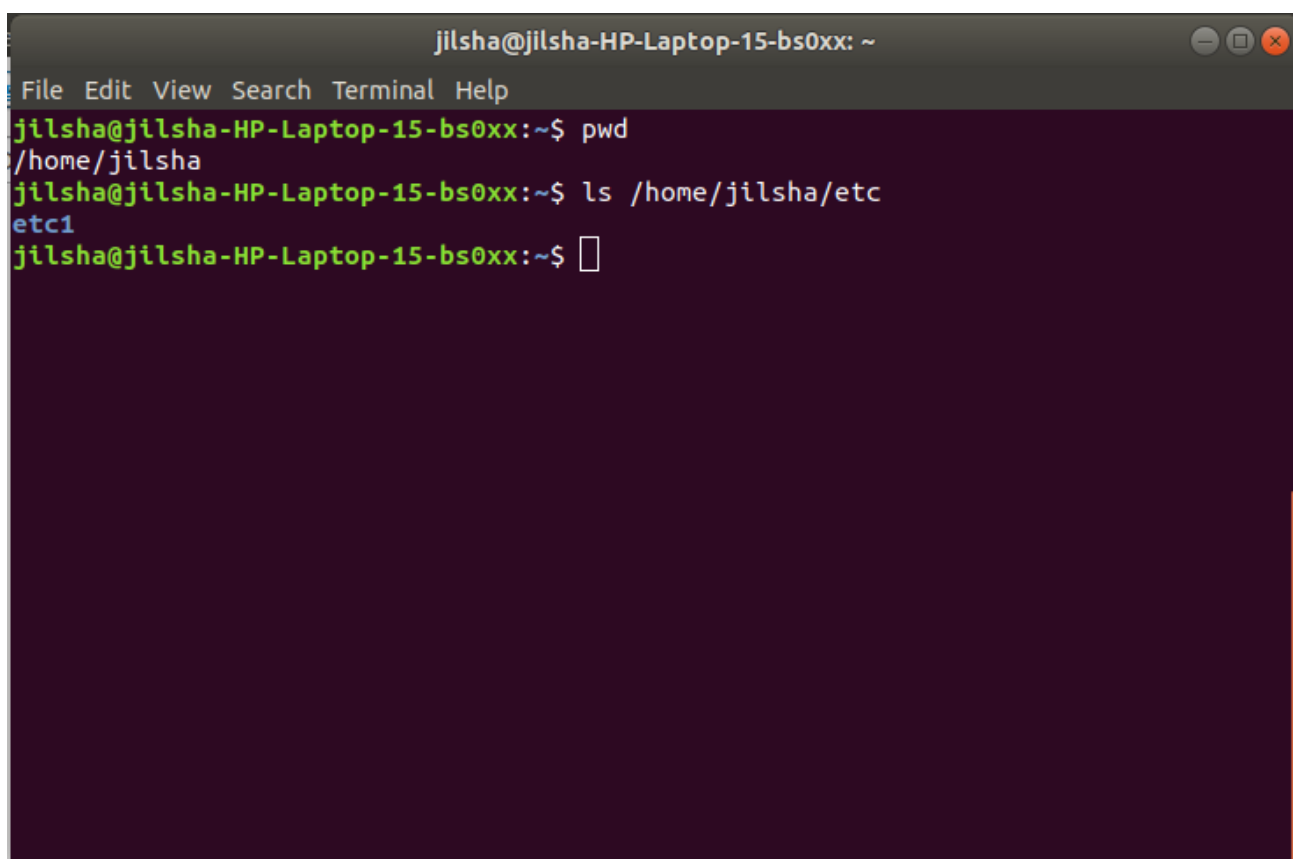
```
jilsha@jilsha-HP-Laptop-15-bs0xx: /
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:/ $ ls
bin      dev      initrd.img  lib64      mnt      root     snap      sys      var
boot     etc      initrd.img.old  lost+found  opt      run      srv      tmp      vmlinuz
cdrom    home     lib         media      proc     sbin     swapfile  usr
jilsha@jilsha-HP-Laptop-15-bs0xx:/ $
```

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



```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls | tail -10  
stringcompare.c  
struct.c  
tast13  
templates  
test10  
test12  
test13  
test3  
testdir  
Videos  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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



```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ pwd  
/home/jilsha  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls /home/jilsha/etc  
etc1  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

9. Create a directory testdir in your home directory.

```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ mkdir testdir  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ pwd  
/home/jilsha  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ mkdir /home/jilsha/newdir  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls /home/jilsha  
AndroidStudioProjects  createlinkedlist.c  etc  firstinsarray.c  linkcreat.c  Music  new_file1.sh  pgm3.c  restricted_deque.c  stack.c  test10  
a.out  delarray.c  examples.desktop  index.html  linkedcreat.c  nano.save  new_file.sh  pgm3.c  restricted_deque.c  stackwithoutpointer.c  test12  
appu.sh  Desktop  file123  infixtopostfix.c  linkedcreat.c.save  new  newfile.sh  pgm4.c  reverse.c  stringcompare.c  test13  
carray.c  dfs.c  file123  insarray.c  linkedlist.c  new13  new_repo  pgm.c  reverse_double.c  struct.c  test3  
creat.c  Documents  file34.sh  ins.c  merg.c  new33  new_repo  Pictures  snap  tast13  testdir  
Downloads  file456  insertion.c  multiple_stack.c  newdir  pgm1.c  Public  srngcopy.c  templates  Videos  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~/dir1/dir2/dir3
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ mkdir -p dir1/dir2/dir3
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cd dir1
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1$ ls
dir2
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1$ cd dir2
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1/dir2$ ls
dir3
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1/dir2$ ls
dir3
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1/dir2$ cd dir3
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1/dir2/dir3$ pwd
/home/jilsha/dir1/dir2/dir3
jilsha@jilsha-HP-Laptop-15-bs0xx:~/dir1/dir2/dir3$
```

12. Display the calendar for April 2019.

```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ 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

jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

13. Display that ‘There are files in my current directory’ . The should be filled with the count of the files.

```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ echo There are $(ls -l | wc -l) files in my current directory  
There are 75 files in my current directory  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls -la  
total 408  
drwxr-xr-x 35 jilsha jilsha 4096 Feb 20 23:20 .  
drwxr-xr-x 3 root root 4096 Sep 15 00:15 ..  
drwxr-xr-x 5 jilsha jilsha 4096 Dec 7 09:43 .android  
drwxr-xr-x 3 jilsha jilsha 4096 Nov 2 22:37 .Android  
drwxr-xr-x 4 jilsha jilsha 4096 Nov 2 22:33 .AndroidStudio3.2  
drwxr-xr-x 5 jilsha jilsha 4096 Dec 7 23:03 .AndroidStudioProjects  
-rwxr-xr-x 1 jilsha jilsha 8488 Dec 28 11:07 a.out  
-rw-r--r-- 1 jilsha jilsha 196 Feb 13 22:24 appu.sh  
drwxr-xr-x 7 jilsha jilsha 4096 Feb 18 14:21 .aton  
-rw-r--r-- 1 jilsha jilsha 26597 Feb 20 22:19 .bash_history  
-rw-r--r-- 1 jilsha jilsha 220 Sep 15 00:15 .bash_logout  
-rw-r--r-- 1 jilsha jilsha 3771 Sep 15 00:15 .bashrc  
drwx----- 26 jilsha jilsha 4096 Feb 20 19:27 .cache  
drwx----- 22 jilsha jilsha 4096 Feb 20 22:17 .config  
-rw-r--r-- 1 jilsha jilsha 1027 Nov 13 21:45 cqarray.c  
-rw-r--r-- 1 jilsha jilsha 444 Oct 9 21:44 creat.c  
-rw-r--r-- 1 jilsha jilsha 87 Nov 25 15:26 creatlinkedlist.c  
drwxr-xr-x 3 jilsha jilsha 4096 Feb 20 23:19 d  
-rw-r--r-- 1 jilsha jilsha 322 Sep 21 15:42 delarray.c  
drwxr-xr-x 6 jilsha jilsha 4096 Feb 20 23:10 Desktop  
-rw-r--r-- 1 jilsha jilsha 395 Nov 26 23:48 dfs.c  
drwxr-xr-x 3 jilsha jilsha 4096 Feb 20 23:20 dir1  
drwxr-xr-x 7 jilsha jilsha 4096 Feb 20 20:55 Documents  
drwxr-xr-x 11 jilsha jilsha 4096 Feb 20 22:45 Downloads  
drwxr-xr-x 4 jilsha jilsha 4096 Feb 20 23:02 etc  
-rw-r--r-- 1 jilsha jilsha 8980 Sep 15 00:15 examples.desktop  
-rw-r--r-- 1 jilsha jilsha 340 Dec 27 12:28 fib.c  
-rw-r--r-- 1 jilsha jilsha 0 Feb 5 12:11 file123  
-rw-r--r-- 1 jilsha jilsha 188 Feb 13 21:32 file34.sh  
-rw-r--r-- 1 jilsha jilsha 0 Feb 5 12:11 file56  
-rw-r--r-- 1 jilsha jilsha 375 Sep 21 15:12 firstinsarray.c  
drwxr-xr-x 8 jilsha jilsha 4096 Feb 12 21:41 .git  
-rw-r--r-- 1 jilsha jilsha 53 Feb 12 21:21 .gitconfig  
drwx----- 3 jilsha jilsha 4096 Sep 15 06:00 .gnupg  
drwxr-xr-x 2 jilsha jilsha 4096 Oct 26 20:40 .gphoto  
drwxr-xr-x 6 jilsha jilsha 4096 Dec 6 20:05 .gradle  
-rw-r--r-- 1 jilsha jilsha 24034 Feb 20 22:44 .ICEauthority  
-rw-r--r-- 1 jilsha jilsha 55965 Oct 29 14:46 Index.html  
-rw-r--r-- 1 jilsha jilsha 731 Nov 13 22:34 infixtopostfix.c  
-rw-r--r-- 1 jilsha jilsha 381 Sep 21 15:29 insarray.c  
-rw-r--r-- 1 jilsha jilsha 949 Nov 26 23:03 ins.c  
-rw-r--r-- 1 jilsha jilsha 2650 Oct 28 20:47 insertion.c  
drwxr-xr-x 4 jilsha jilsha 4096 Nov 2 22:36 .java  
-rw-r--r-- 1 jilsha jilsha 474 Dec 28 11:00 linkcreat.c  
-rw-r--r-- 1 jilsha jilsha 682 Dec 28 10:59 linkedcreat.c  
-rw-r--r-- 1 jilsha jilsha 682 Sep 27 18:39 linkedcreat.c.save  
-rw-r--r-- 1 jilsha jilsha 372 Oct 9 21:43 linkedlist.c  
drwx----- 3 jilsha jilsha 4096 Sep 15 05:59 .local  
-rw-r--r-- 1 jilsha jilsha 970 Dec 28 11:58 merg.c  
drwx----- 5 jilsha jilsha 4096 Sep 15 13:47 .mozilla  
-rw-r--r-- 1 jilsha jilsha 1511 Nov 20 22:51 multiple_stack.c  
drwxr-xr-x 2 jilsha jilsha 4096 Sep 19 07:45 Mustic  
-rw-r--r-- 1 jilsha jilsha 19 Feb 13 22:34 nano.save
```

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

```
Activities Terminal
jllsha@jllsha-HP-Laptop-15-bs0xx:~$ ls -la ~ > FileList.txt
jllsha@jllsha-HP-Laptop-15-bs0xx:~$ cat FileList.txt
total 496
drwxr-xr-x 35 jllsha jllsha 4096 Feb 22 23:30 .
drwxr-xr-x 3 root root 4096 Sep 15 00:15 ..
-rw-r--r-- 1 jllsha jllsha 6 Feb 21 00:20 a
drwxr-xr-x 5 jllsha jllsha 4096 Dec 7 09:43 .android
drwxr-xr-x 3 jllsha jllsha 4096 Nov 2 22:37 Android
drwxr-xr-x 4 jllsha jllsha 4096 Nov 2 22:33 .AndroidStudio3.2
drwxr-xr-x 5 jllsha jllsha 4096 Dec 7 23:03 AndroidStudioProjects
-rwxr-xr-x 1 jllsha jllsha 8488 Dec 28 11:07 a.out
-rw-r--r-- 1 jllsha jllsha 196 Feb 13 22:24 appu.sh
drwxrwxr-x 7 jllsha jllsha 4096 Feb 18 14:21 .atom
-rw-r--r-- 1 jllsha jllsha 0 Feb 20 23:35 barbit
-rw-r--r-- 1 jllsha jllsha 28006 Feb 22 22:21 .bash_history
-rw-r--r-- 1 jllsha jllsha 220 Sep 15 00:15 .bash_logout
-rw-r--r-- 1 jllsha jllsha 3771 Sep 15 00:15 .bashrc
drwxr-xr-x 26 jllsha jllsha 4096 Feb 20 19:27 .cache
-rw-r--r-- 1 jllsha jllsha 178 Feb 22 19:18 Capstory.txt
drwxr-xr-x 22 jllsha jllsha 4096 Feb 22 21:41 .config
-rw-r--r-- 1 jllsha jllsha 0 Feb 22 23:26 CountFile.txt
-rw-r--r-- 1 jllsha jllsha 128 Feb 22 19:06 Countries.txt
-rw-r--r-- 1 jllsha jllsha 1627 Nov 13 21:45 cqarray.c
-rw-r--r-- 1 jllsha jllsha 444 Oct 9 21:44 creat.c
-rw-r--r-- 1 jllsha jllsha 87 Nov 25 15:26 creatlinkedlist.c
drwxr-xr-x 3 jllsha jllsha 4096 Feb 20 23:19 d
-rw-r--r-- 1 jllsha jllsha 322 Sep 21 15:42 delarray.c
drwxr-xr-x 6 jllsha jllsha 4096 Feb 22 22:20 Desktop
-rw-r--r-- 1 jllsha jllsha 395 Nov 26 23:48 dfs.c
drwxr-xr-x 3 jllsha jllsha 4096 Feb 20 23:20 dir1
drwxr-xr-x 7 jllsha jllsha 4096 Feb 21 21:23 Documents
drwxr-xr-x 11 jllsha jllsha 4096 Feb 22 19:01 Downloads
drwxr-xr-x 4 jllsha jllsha 4096 Feb 20 23:02 etc
-rw-r--r-- 1 jllsha jllsha 8980 Sep 15 00:15 examples.desktop
-rw-r--r-- 1 jllsha jllsha 346 Dec 27 12:28 fib.c
-rw-r--r-- 1 jllsha jllsha 0 Feb 5 12:11 file123
-rw-r--r-- 1 jllsha jllsha 188 Feb 13 21:32 file34.sh
-rw-r--r-- 1 jllsha jllsha 0 Feb 5 12:11 file456
-rw-r--r-- 1 jllsha jllsha 0 Feb 22 21:57 filelist.txt
-rw-r--r-- 1 jllsha jllsha 0 Feb 22 23:30 FileList.txt
-rw-r--r-- 1 jllsha jllsha 375 Sep 21 15:12 firstinsarray.c
drwxr-xr-x 8 jllsha jllsha 4096 Feb 12 21:41 .git
-rw-r--r-- 1 jllsha jllsha 53 Feb 12 21:21 .gitconfig
drwxr-xr-x 3 jllsha jllsha 4096 Sep 15 06:00 .gnupg
drwxr-xr-x 2 jllsha jllsha 4096 Oct 26 20:40 .gphoto
drwxr-xr-x 6 jllsha jllsha 4096 Dec 6 20:05 .gradle
-rw-r--r-- 1 jllsha jllsha 24428 Feb 22 23:24 .ICEauthority
-rw-r--r-- 1 jllsha jllsha 55965 Oct 29 14:46 index.html
-rw-r--r-- 1 jllsha jllsha 731 Nov 13 22:34 infixtopostfix.c
-rw-r--r-- 1 jllsha jllsha 381 Sep 21 15:29 insarray.c
-rw-r--r-- 1 jllsha jllsha 949 Nov 26 23:03 ins.c
-rw-r--r-- 1 jllsha jllsha 2658 Oct 28 20:47 insertion.c
drwxr-xr-x 4 jllsha jllsha 4096 Nov 2 22:36 .java
-rw-r--r-- 1 jllsha jllsha 474 Dec 28 11:00 linkcreat.c
-rw-r--r-- 1 jllsha jllsha 682 Dec 28 10:59 linkedcreat.c
```

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

```
Activities Terminal
jllsha@jllsha-HP-Laptop-15-bs0xx:~$ wc -l FileList.txt > CountFile.txt
jllsha@jllsha-HP-Laptop-15-bs0xx:~$ cat CountFile.txt
105 FileList.txt
jllsha@jllsha-HP-Laptop-15-bs0xx:~$
```


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

```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls | grep ^s  
snap  
sringcopy.c  
stack.c  
stackwithoutpointer.c  
stringcompare.c  
struct.c  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ ls | grep ^a && ls | grep ^b && ls | grep ^s  
a.out  
appu.sh  
barbi  
snap  
sringcopy.c  
stack.c  
stackwithoutpointer.c  
stringcompare.c  
struct.c  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

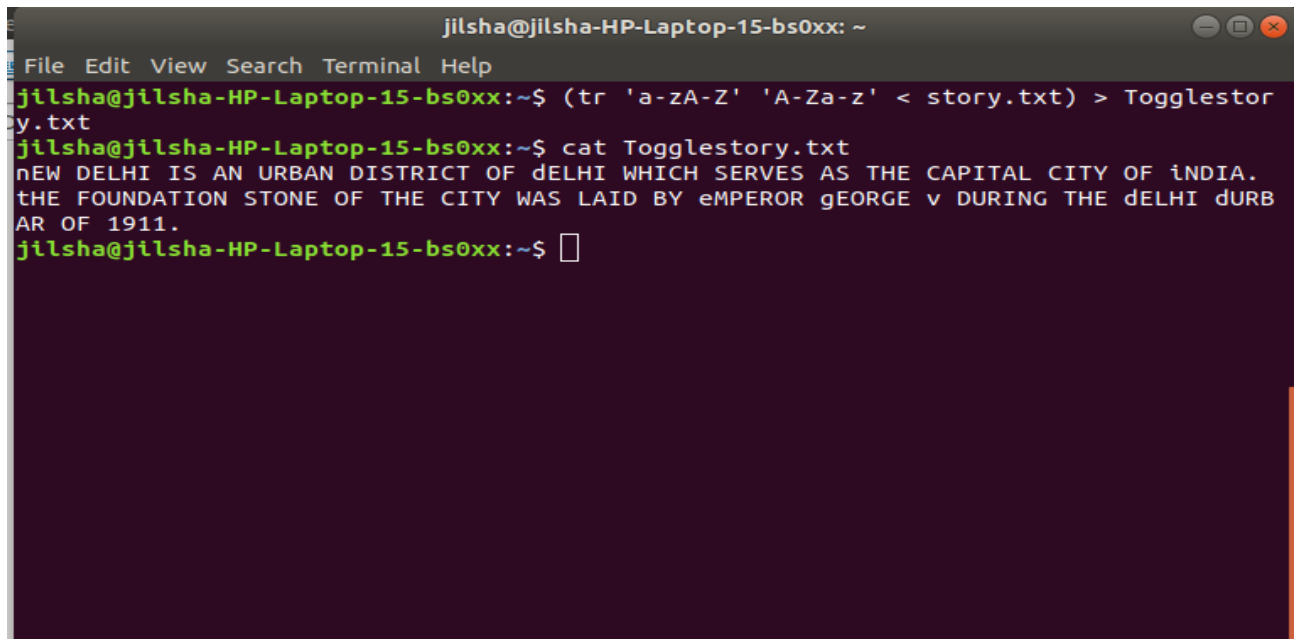
```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ nano Countries.txt
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cat Countries.txt
INDIA          NEW DELHI
ICELAND        REYKJAVIK
AFGANISTAN     KABUL
ALGERIA        ALGIERS
ALBANIA        TIRANA
BHAHARAIN      MANAMA
CUBA           HAVANA
PERU           LIMA

jilsha@jilsha-HP-Laptop-15-bs0xx:~$ nano story.txt
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cat story.txt
New delhi is an urban district of Delhi which serves as the capital city of India.
The foundation stone of the city was laid by Emperor George V during the Delhi Durbar of 1911.
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

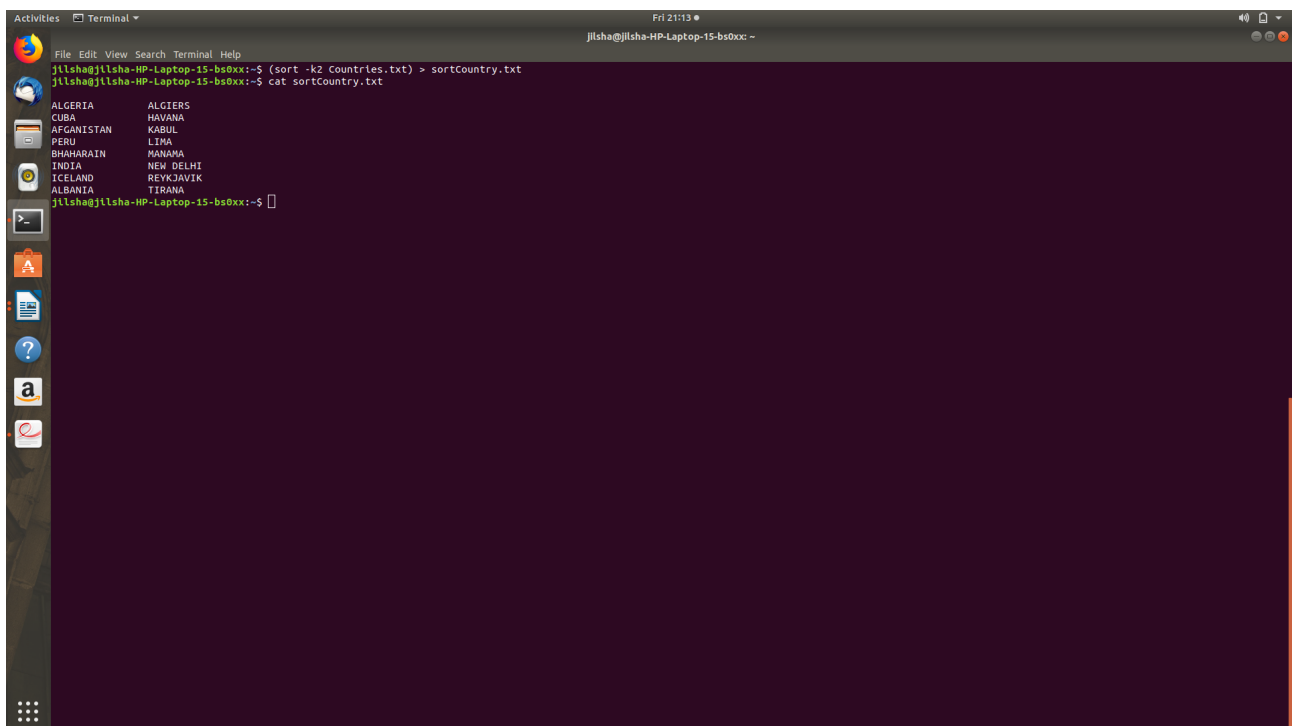
```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ (tr a-z A-Z < story.txt) > Capstory.txt
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cat Capstory.txt
NEW DELHI IS AN URBAN DISTRICT OF DELHI WHICH SERVES AS THE CAPITAL CITY OF INDIA.
THE FOUNDATION STONE OF THE CITY WAS LAID BY EMPEROR GEORGE V DURING THE DELHI DURBAR OF 1911.
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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



```
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ (tr 'a-zA-Z' 'A-Za-z' < story.txt) > Togglestory.txt  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cat Togglestory.txt  
NEW DELHI IS AN URBAN DISTRICT OF dELHI WHICH SERVES AS THE CAPITAL CITY OF iNDIA.  
THE FOUNDATION STONE OF THE CITY WAS LAID BY eMPEOR gEORGE v DURING THE dELHI dURB  
AR OF 1911.  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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



```
Activities Terminal  
Fri 21:13  
jilsha@jilsha-HP-Laptop-15-bs0xx: ~  
File Edit View Search Terminal Help  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ (sort -k2 Countries.txt) > sortCountry.txt  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ cat sortCountry.txt  
ALGERIA ALGIER  
CUBA HAVANA  
AFGANISTAN KABUL  
PERU LIMA  
BHAHARAIN MANAMA  
INDIA NEW DELHI  
ICELAND REYKJAVIK  
ALBANIA TIRANA  
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ awk '{print $2}' Countries.txt
NEW
REYKJAVIK
KABUL
ALGIERS
TIRANA
MANAMA
HAVANA
LIMA

jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

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

```
Activities Terminal Fri 21:17
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ find . -type f \( -name "*.txt" -o -name "*.doc" \)
./AndroidStudioProjects/MyProfile/app/build/outputs/logs/manifest-merger-debug-report.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/res/symbol-table-with-package/debug/package-aware-r.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_9/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_0/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_7/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_8/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_4/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_1/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_2/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_6/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_5/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_3/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_dep/debug/package_dependencies/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/packageInstantRunResourcesDebug/tmp/debug/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/packageDebug/tmp/debug/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/packageDebug/tmp/debug/file-input-save-data.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/symbols/debug/R.txt
./AndroidStudioProjects/MyProfile/app/build/kotlin/compileDebugKotlin/format-version.txt
./AndroidStudioProjects/MyProfile/app/build/kotlin/compileDebugKotlin/data-container-format-version.txt
./AndroidStudioProjects/helloworld/app/build/outputs/logs/manifest-merger-debug-report.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/res/symbol-table-with-package/debug/package-aware-r.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_9/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_0/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_7/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_8/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_1/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_2/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_6/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_5/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_slices/debug/package_slice_3/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/ir_dep/debug/package_dependencies/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/packageInstantRunResourcesDebug/tmp/debug/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/packageDebug/tmp/debug/dex-renamer-state.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/incremental/packageDebug/tmp/debug/file-input-save-data.txt
./AndroidStudioProjects/helloworld/app/build/intermediates/symbols/debug/R.txt
./AndroidStudioProjects/helloworld/app/build/kotlin/compileDebugKotlin/gradle-format-version.txt
./AndroidStudioProjects/helloworld/app/build/kotlin/compileDebugKotlin/format-version.txt
./AndroidStudioProjects/helloworld/app/build/kotlin/compileDebugKotlin/data-container-format-version.txt
./AndroidStudioProjects/MyProfile/app/build/outputs/logs/manifest-merger-debug-report.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/res/symbol-table-with-package/debug/package-aware-r.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/processDebugResources/resources-list-for-resources-debug.ap_
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_9/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_0/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_7/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_8/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_1/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_2/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_6/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_5/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_slices/debug/package_slice_3/dex-renamer-state.txt
./AndroidStudioProjects/MyProfile/app/build/intermediates/incremental/ir_dep/debug/package_dependencies/dex-renamer-state.txt
```

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

```
File Edit View Search Terminal Help
jilsha@jilsha-HP-Laptop-15-bs0xx:~$ grep -o the story.txt | wc -l
3
jilsha@jilsha-HP-Laptop-15-bs0xx:~$
```

CONCLUSION

Practical cycle have been completed using ubuntu 16.04 and output obtained.