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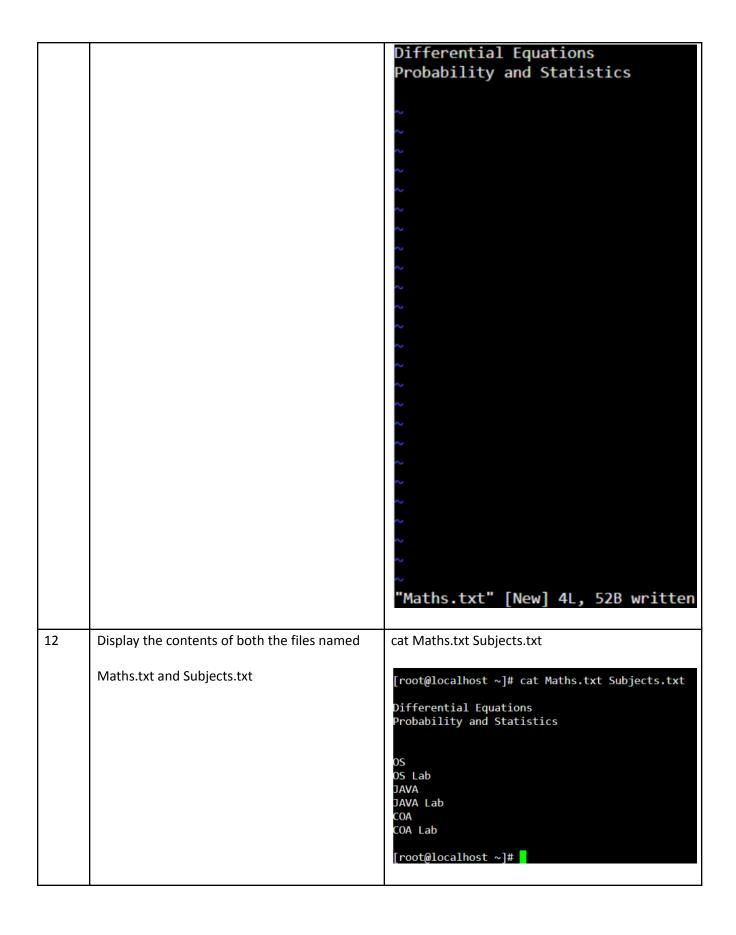| Q. No.	Question	Solution
1	List all the files and directories.	ls [root@localhost ~]# ls bench.py hello.c
2	Create parent directory called India	mkdir India [root@localhost ~]# mkdir india [root@localhost ~]# ls bench.py hello.c india
3	Create sub directories named NewDelhi, Mumbai and Bangalore	mkdir NewDelhi mkdir Mumbai mkdir Bangalore [root@localhost ~]# cd india [root@localhost india]# mkdir newdelhi [root@localhost india]# mkdir mumbai [root@localhost india]# mkdir bangalore [root@localhost india]# ls bangalore mumbai newdelhi [root@localhost india]#
4	Rename Bangalore to Kolkata	mv Bangalore Kolkata [root@localhost india]# mv bangalore kolkata [root@localhost india]# ls kolkata mumbai newdelhi [root@localhost india]#

| 5 | Create one text file Sample.text in NewDelhi, Kolkata and Mumbai | cd NewDelhi

vi sample.txt

cd ..

cd Kolkata

vi sample.txt

cd ..

cd Mumbai

vi sample.txt

cd ..

```
[root@localhost newdelhi]# vi sample.txt
```

```
"sample.txt" [New] 0L, 0B written
[root@localhost newdelhi]# ls
sample.txt
```

```
[root@localhost newdelhi]# cd ..
[root@localhost india]# ls
kolkata mumbai newdelhi
[root@localhost india]# cd kolkata
[root@localhost kolkata]# vi sample.txt
```

```
"sample.txt" [New] 0L, 0B written
[root@localhost kolkata]# ls
sample.txt
[root@localhost kolkata]#
```

```
[root@localhost kolkata]# cd ..
[root@localhost india]# ls
kolkata mumbai newdelhi
[root@localhost india]# cd mumbai
[root@localhost mumbai]# vi sample.txt
```

```
"sample.txt" [New] 0L, 0B written
[root@localhost mumbai]# ls
sample.txt
``` |

6	Remove the directory named Mumbai and check if it is removed or not	rm -r Mumbai ``` [root@localhost india]# rm -r mumbai [root@localhost india]# ls kolkata newdelhi ```
7	Create a file named Subjects and lists all the subjects in your current semester	vi Subjects.txt OS OS Lab JAVA JAVA Lab COA

		COA Lab
| | | ```
[root@localhost ~]# vi Subjects.txt


OS
OS Lab
JAVA
JAVA Lab
COA
COA Lab

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"Subjects.txt" [New] 8L, 39B written
[root@localhost ~]#
``` |
| 8 | Display the contents of the text file named Subjects.txt | cat Subjects.txt<br><br>```
[root@localhost ~]# cat Subjects.txt

OS
OS Lab
JAVA
JAVA Lab
COA
COA Lab

[root@localhost ~]#
``` |

9	Display the first 3 lines of the file named Subjects.txt	head -3 Subjects.txt
		
		`[root@localhost ~]# head -3 Subjects.txt`
		`OS`
		`OS Lab`
		`[root@localhost ~]#`

10	Display the last 3 lines of the file named Subjects.txt	tail -3 Subjects.txt
		
		`[root@localhost ~]# tail -3 Subjects.txt`
		`COA`
		`COA Lab`
		`[root@localhost ~]#`

11	Create another file named Maths.txt	vi Maths.txt Differential Equations Probability and Statistics

		Differential Equations Probability and Statistics ~ "Maths.txt" [New] 4L, 52B written
12	Display the contents of both the files named Maths.txt and Subjects.txt	cat Maths.txt Subjects.txt [root@localhost ~]# cat Maths.txt Subjects.txt Differential Equations Probability and Statistics OS OS Lab JAVA JAVA Lab COA COA Lab [root@localhost ~]#

13	Count the number of lines in the file named Subjects.txt	wc -l Subjects.txt
| | | ```
[root@localhost ~]# wc -l Subjects.txt
8 Subjects.txt
[root@localhost ~]#
``` |
| 14 | Count the number of words in the file named Subjects.txt | wc -w Subjects.txt |
| | | ```
[root@localhost ~]# wc -w Subjects.txt
9 Subjects.txt
[root@localhost ~]#
``` |
| 15 | Count the number of characters in the file named Subjects.txt | wc -c Subjects.txt |
| | | ```
[root@localhost ~]# wc -c Subjects.txt
39 Subjects.txt
[root@localhost ~]#
``` |
| 16 | Zip the files named Subjects.txt and Maths.txt into name Semester-4 | zip Semester-4 Maths.txt Subjects.txt |
| | | ```
[root@localhost ~]# zip Semester-4 Subjects.txt Maths.txt
  adding: Subjects.txt (deflated 28%)
  adding: Maths.txt (stored 0%)
[root@localhost ~]# ls
bench.py  hello.c  Maths.txt  Semester-4.zip  Subjects.txt
[root@localhost ~]#
``` |
| 17 | Unzip the file named Semester-4.zip | unzip Semester-4 |
| | | ```
[root@localhost ~]# unzip Semester-4
Archive:  Semester-4.zip
replace Subjects.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: Subjects.txt
replace Maths.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  extracting: Maths.txt
[root@localhost ~]# ls
bench.py  hello.c  Maths.txt  Semester-4.zip  Subjects.txt
[root@localhost ~]#
``` |
| 18 | Display the size of a Semester-4.zip | du Semester-4.zip |
| | | ```
[root@localhost ~]# du Semester-4.zip
4       Semester-4.zip
[root@localhost ~]#
``` |
| 19 | Search for a string of text OS in the text file named Subjects.txt | grep OS Subjects.txt |
| | | ```
[root@localhost ~]# grep OS Subjects.txt
OS
OS Lab
[root@localhost ~]#
``` |

20	Test a network connection to a specified host	ping google.com
|    |                                               | ```
[root@localhost ~]# ping google.com
ping: socket: Address family not supported by protocol
PING google.com (142.250.189.174) 56(84) bytes of data.
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=1 ttl=58 tim
e=274 ms
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=2 ttl=58 tim
e=262 ms
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=3 ttl=58 tim
e=376 ms
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=4 ttl=58 tim
e=300 ms
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=5 ttl=58 tim
e=321 ms
64 bytes from sfo03s24-in-f14.1e100.net (142.250.189.174): icmp_seq=6 ttl=58 tim
e=272 ms
^C
--- google.com ping statistics ---
7 packets transmitted, 6 received, 14.2857% packet loss, time 6042ms
rtt min/avg/max/mdev = 261.800/300.850/375.899/38.986 ms
[root@localhost ~]#
``` |