PART -A:

1 –

- I. /proc
- II. /boot
- III. /home
- IV. /var/log
- V. /root
- VI. /etc
- VII. /mnt
- VIII. /dev
- IX. /usr/sbin
- X. /etc/skel
- XI. /usr/lib
- XII. /lib
- XIII. /usr/share/man
- XIV. /var/mail

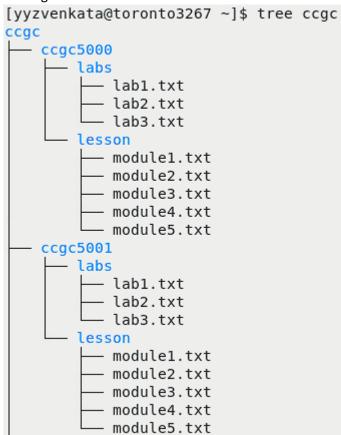
PART -B:

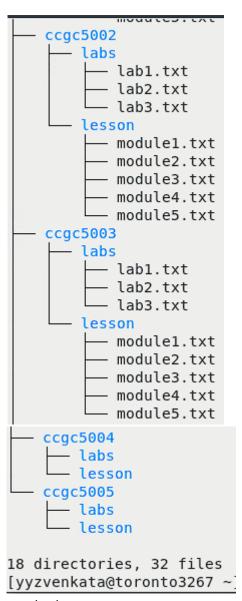
2 - Is -I vs Is -Ia

A: Is -I doesn't show hidden files while Is -Is does.

8 –

a) tree ccgc





b) tree backup

```
[yyzvenkata@toronto3267 ~]$ tree backup

backup

labs

lab1.txt

lab2.txt

lab3.txt

lesson

module1.txt

module2.txt

module3.txt

module4.txt

module5.txt

2 directories, 8 files
```

c) Is -IR ccgc

```
[yyzvenkata@toronto3267 ~]$ ls -lR ccgc
ccqc:
total 0
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:32 ccgc5000
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:34 ccgc5001
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:34 ccgc5002
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:34 ccgc5003
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:34 ccgc5004
drwxrwxr-x. 4 yyzvenkata yyzvenkata 32 Feb 2 22:34 ccgc5005
ccgc/ccgc5000:
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 54 Feb 2 22:44 labs
drwxrwxr-x. 2 yyzvenkata yyzvenkata 101 Feb 2 22:52 lesson
ccgc/ccgc5000/labs:
total 12
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:43 lab1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:44 lab2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:44 lab3.txt
ccgc/ccgc5000/lesson:
total 20
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:50 module3.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:51 module4.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:52 module5.txt
```

```
ccqc/ccqc5001:
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 54 Feb 2 22:46 labs
drwxrwxr-x. 2 yyzvenkata yyzvenkata 101 Feb 2 22:52 lesson
ccgc/ccgc5001/labs:
total 12
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:46 lab1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:45 lab2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:44 lab3.txt
ccgc/ccgc5001/lesson:
total 20
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:50 module3.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:51 module4.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:52 module5.txt
ccgc/ccgc5002:
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 54 Feb 2 22:46 labs
drwxrwxr-x. 2 yyzvenkata yyzvenkata 101 Feb 2 22:52 lesson
ccgc/ccgc5002/labs:
total 12
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:46 lab1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:45 lab2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:44 lab3.txt
ccgc/ccgc5002/lesson:
total 20
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:50 module3.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:51 module4.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:52 module5.txt
ccgc/ccgc5003:
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 54 Feb 2 22:46 labs
drwxrwxr-x. 2 yyzvenkata yyzvenkata 101 Feb 2 22:52 lesson
ccgc/ccgc5003/labs:
total 12
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:46 lab1.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:45 lab2.txt
-rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:44 lab3.txt
```

```
-rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module1.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:49 module2.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:50 module3.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:51 module4.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:52 module5.txt
   ccgc/ccgc5004:
   total 0
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 6 Feb 2 22:34 labs
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 6 Feb 2 22:34 lesson
   ccqc/ccqc5004/labs:
   total 0
   ccgc/ccgc5004/lesson:
   total 0
   ccgc/ccgc5005:
   total 0
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 6 Feb 2 22:34 labs
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 6 Feb 2 22:34 lesson
   ccgc/ccgc5005/labs:
   total 0
   ccgc/ccgc5005/lesson:
  total 0
d) Is -IR backup
   [yyzvenkata@toronto3267 ~]$ ls -lR backup
   backup:
   total 0
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 54 Feb 2 22:56 labs
   drwxrwxr-x. 2 yyzvenkata yyzvenkata 101 Feb 2 22:56 lesson
   backup/labs:
   total 12
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:56 lab1.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:56 lab2.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 5 Feb 2 22:56 lab3.txt
   backup/lesson:
   total 20
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:56 module1.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:56 module2.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:56 module3.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:56 module4.txt
   -rw-rw-r--. 1 yyzvenkata yyzvenkata 8 Feb 2 22:56 module5.txt
   [yyzvenkata@toronto3267 ~]$
```

ccqc/ccqc5003/lesson:

total 20

```
PART-C:
```

10.

a) tree cloud

b) Is -IR cloud

```
[yyzvenkata@toronto3267 ~]$ ls -lR cloud
cloud:
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 30 Feb 2 23:11 aws
drwxrwxr-x. 2 yyzvenkata yyzvenkata 6 Feb 2 23:09 azure
drwxrwxr-x. 2 yyzvenkata yyzvenkata 30 Feb 2 23:12 gcp
cloud/aws:
total 0
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:11 aws1
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:11 aws2
cloud/azure:
total 0
cloud/gcp:
total 0
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:12 gcp1
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:12 gcp2
[yyzvenkata@toronto3267 ~]$
```

- 11. rmdir did not delete /cloud/aws as the aws folder is not empty. Instead using right command deletes aws folder i.e: rm -r cloud/aws
- 12. rmdir cloud/azure works because azure directory is empty.

```
[yyzvenkata@toronto3267 ~]$ stat mylab3;ls -lR cloud
  File: mylab3
                       Blocks: 0
 Size: 0
                                          IO Block: 4096
                                                          regular empty file
Device: fd00h/64768d
                      Inode: 3301241
                                          Links: 1
Access: (0664/-rw-rw-r--) Uid: ( 1001/yyzvenkata)
                                                    Gid: ( 1001/yyzvenkata)
Context: unconfined_u:object_r:user_home_t:s0
Access: 2023-02-02 23:24:00.737436341 -0500
Modify: 2023-02-02 23:24:00.737436341 -0500
Change: 2023-02-02 23:24:00.737436341 -0500
Birth: 2023-02-02 23:24:00.737436341 -0500
total 0
drwxrwxr-x. 2 yyzvenkata yyzvenkata 30 Feb 2 23:12 gcp
cloud/gcp:
total 0
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:12 gcp1
-rw-rw-r--. 1 yyzvenkata yyzvenkata 0 Feb 2 23:12 gcp2
```

14.

```
[yyzvenkata@toronto3267 ~]$ stat mylab3
  File: mylab3
  Size: 9
                        Blocks: 8
                                           IO Block: 4096
                                                            regular file
                        Inode: 3301241
Device: fd00h/64768d
                                           Links: 1
Access: (0664/-rw-rw-r--) Uid: ( 1001/yyzvenkata)
                                                     Gid: ( 1001/yyzvenkata)
Context: unconfined u:object r:user home t:s0
Access: 2023-02-02 23:40:16.784475118 -0500
Modify: 2023-02-02 23:40:11.863474923 -0500
Change: 2023-02-02 23:40:11.863474923 -0500
Birth: 2023-02-02 23:24:00.737436341 -0500
[yyzvenkata@toronto3267 ~]$
```

15.

16.

```
[yyzvenkata@toronto3267 ~]$ ls -l mylab3
-rw-rw-r--. 1 yyzvenkata yyzvenkata 20 Feb 2 23:42 mylab3
[yyzvenkata@toronto3267 ~]$ ls -lc mylab3
-rw-rw-r--. 1 yyzvenkata yyzvenkata 20 Feb 2 23:42 mylab3
[yyzvenkata@toronto3267 ~]$ ls -lu mylab3
-rw-rw-r--. 1 yyzvenkata yyzvenkata 20 Feb 2 23:42 mylab3
[yyzvenkata@toronto3267 ~]$
```

```
PART - D.
```

a)

```
[yyzvenkata@toronto3267 ~]$ ls -li *mylab3*
3301243 -rw-rw-r--. 2 yyzvenkata yyzvenkata 20 Feb 2 23:42 hl-mylab3
3301243 -rw-rw-r--. 2 yyzvenkata yyzvenkata 20 Feb 2 23:42 mylab3
3341883 lrwxrwxrwx. 1 yyzvenkata yyzvenkata 6 Feb 2 23:48 sl-mylab3 -> mylab3
3301242 lrwxrwxrwx. 1 yyzvenkata yyzvenkata 6 Feb 2 23:51 sl-mylab3 -> mylab3
[yyzvenkata@toronto3267 ~]$
```

b)

```
[yyzvenkata@toronto3267 ~]$ ls -li cloud*
3301236 lrwxrwxrwx. 1 yyzvenkata yyzvenkata 5 Feb 2 23:58 cloudsl -> cloud

cloud:
total 0
35326287 drwxrwxr-x. 2 yyzvenkata yyzvenkata 30 Feb 2 23:12 gcp
[yyzvenkata@toronto3267 ~]$
```

PART-E.

```
[yyzvenkata@toronto3267 ~]$ history | grep -E 'find|locate'
316 find ~/ -name "ccgc*"
317 find ~/ -name "lab*" -o -name module*
318 find ~/ -type f -size +100M
319 find ~/ -type f -size +100m
320 sudo find / -type f -user yyzvenkata
321 locate ./ module1
322 locate ./module1
323 locate ./ module1
324 history | grep -E 'find|locate'
[yyzvenkata@toronto3267 ~]$
```