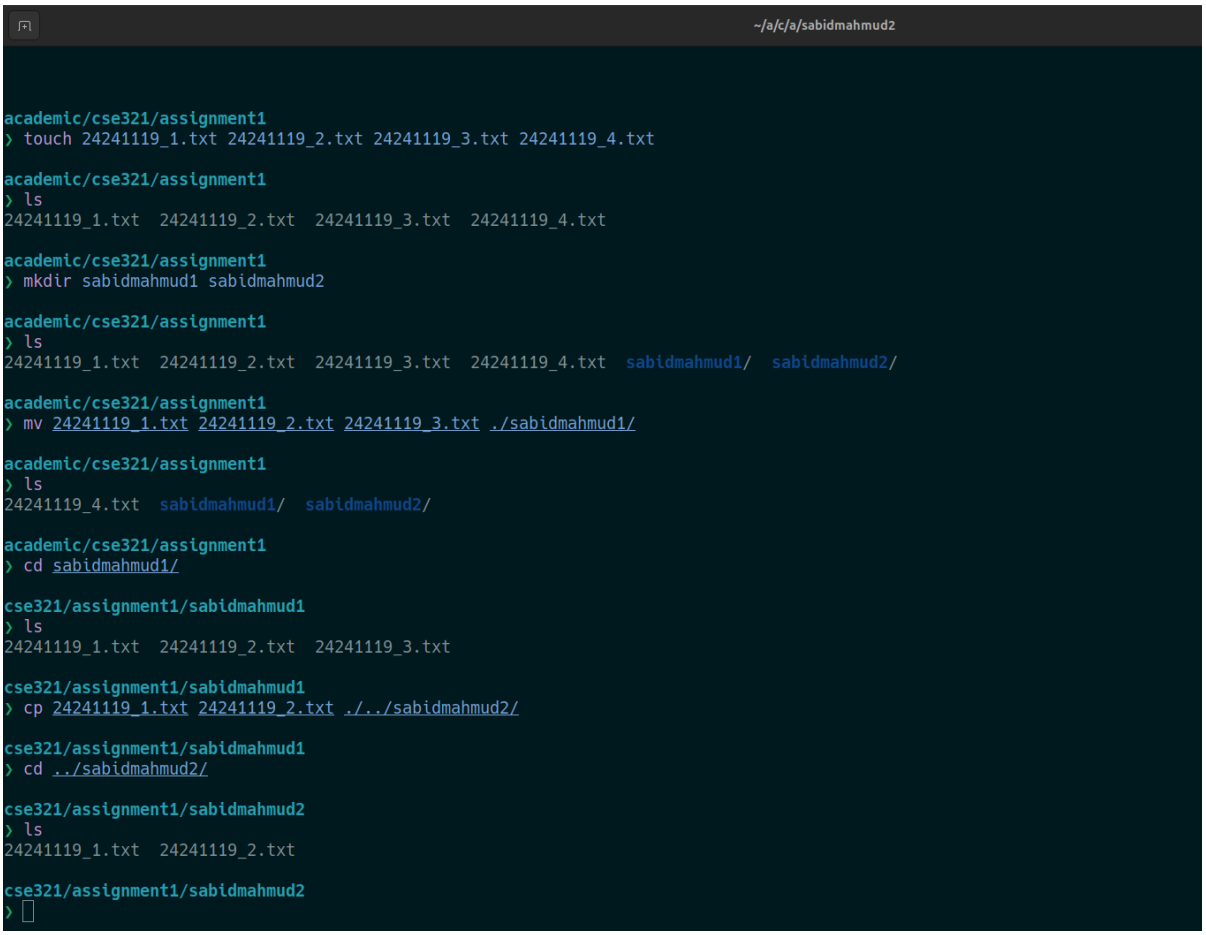
CSE321
Lab Assignment 1

Answer to the Question (A)

Tasks:

1. Create 4 files named yourID_1.txt, yourID_2.txt, yourID_3, yourID_4.txt and 2 directories named YourName1, YourName2.
2. Move yourID_1.txt, yourID_2.txt, yourID_3.txt in YourName1 directory.
3. Copy yourID_1.txt, yourID_2.txt YourName2 directory.

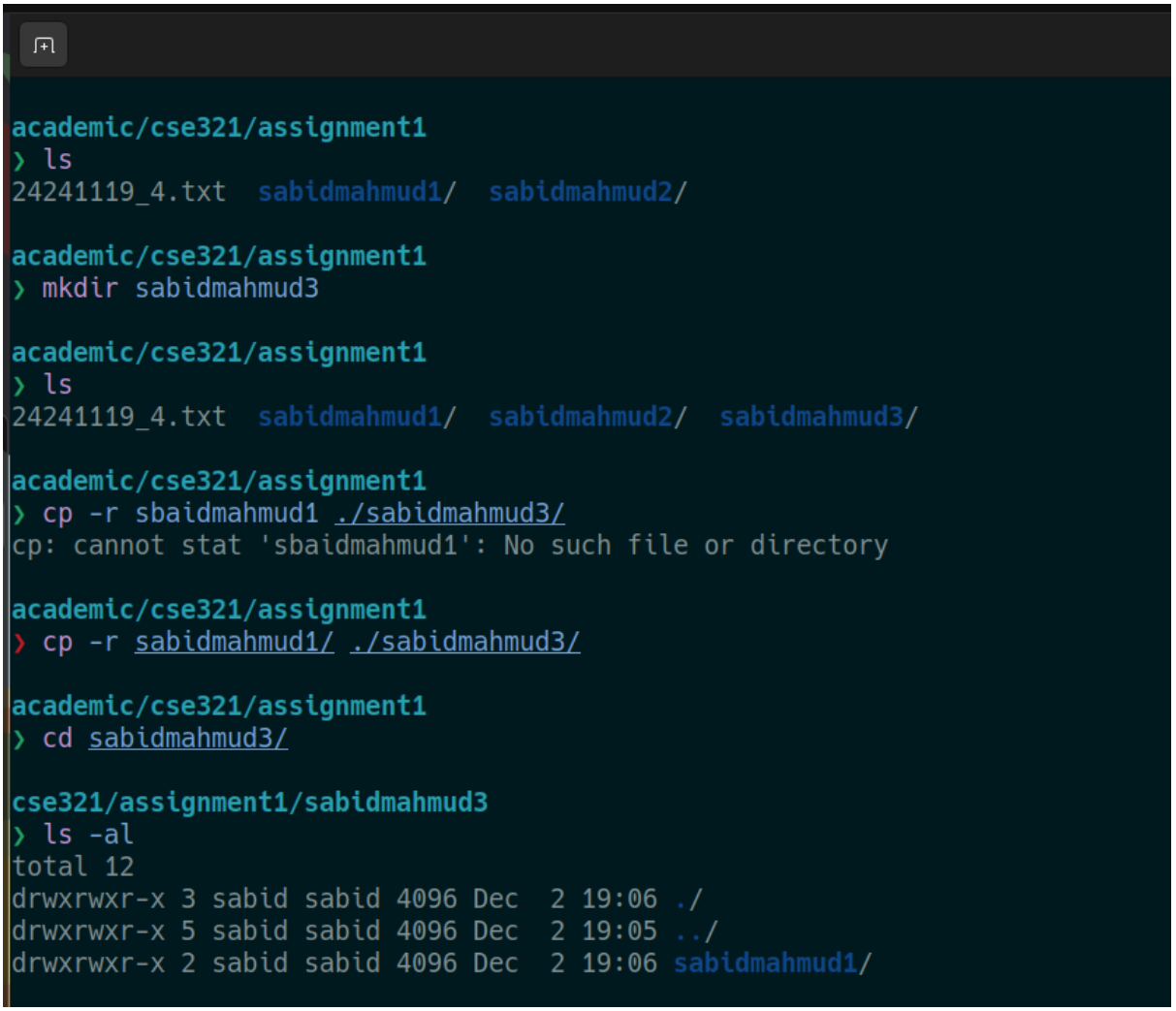
Screenshot:



Task:

1. **Create** another directory YourName3.
2. **Copy** the YourName1 directory along with its contents to the YourName3 directory.
3. Now **go into** the YourName3 directory and check the permissions of the files/directory

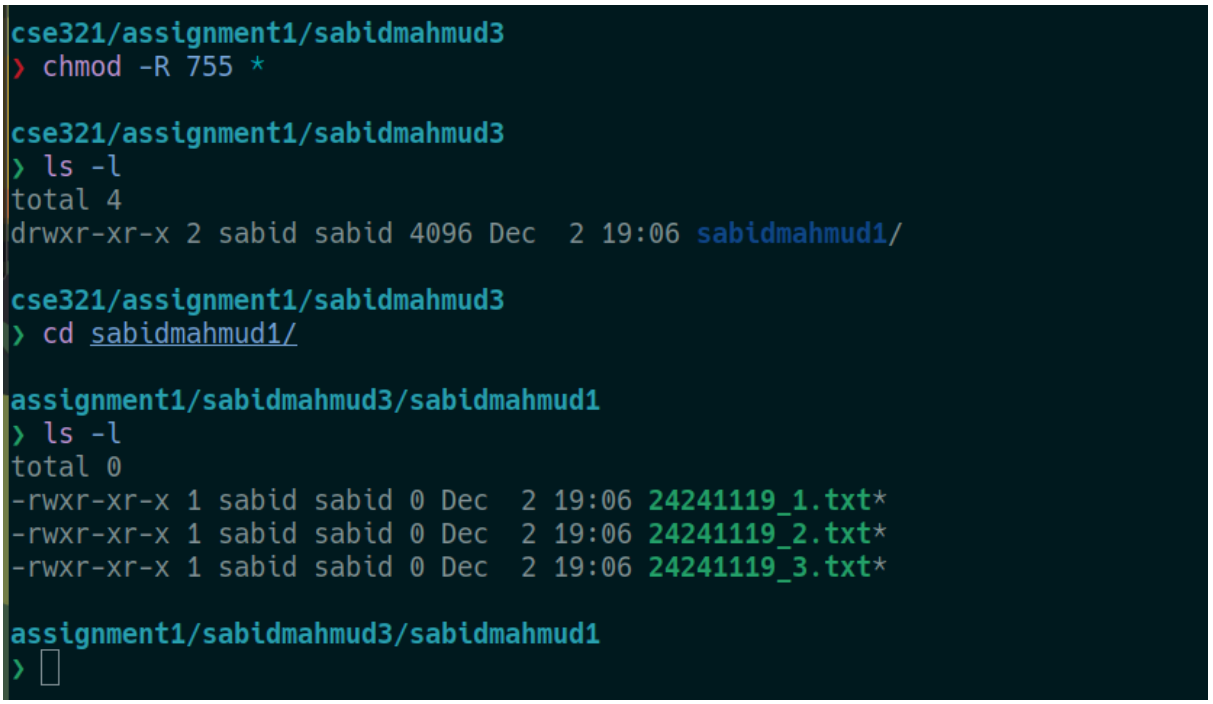
Screenshot:



Task:

1. change the permissions for both groups and others to only read-execute for all the files.
2. Check the file permissions to make sure that groups and others permissions are set to r-x.

Screenshot:



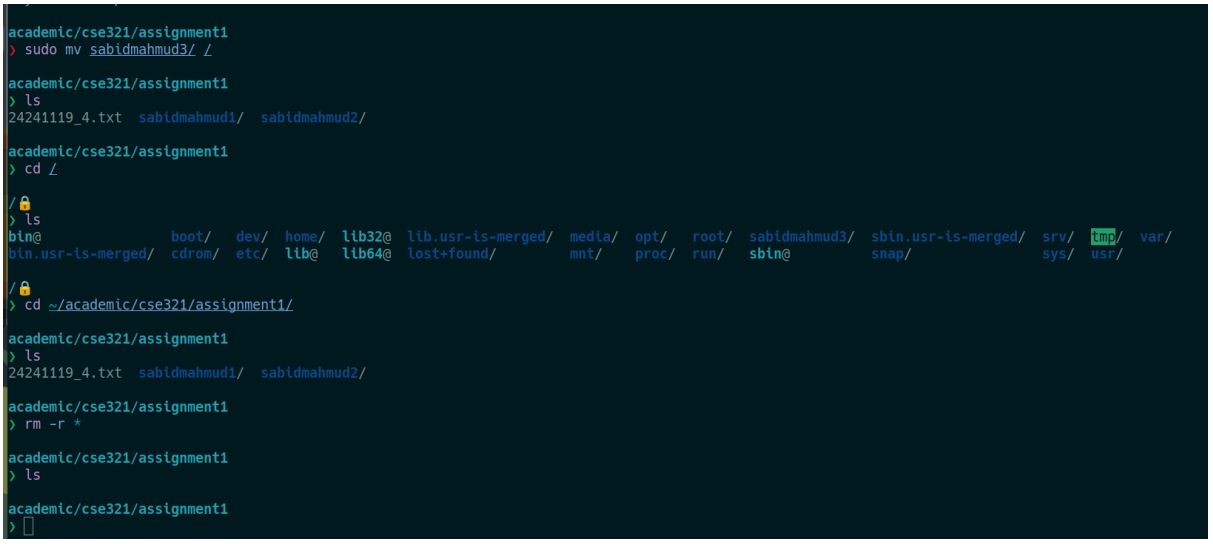
- Task: Go back to the previous directory and print all the directories and files in the current working directory.

```
cse321/assignment1/sabidmahmud3
❯ cd ..

academic/cse321/assignment1
❯ pwd
/home/sabid/academic/cse321/assignment1

academic/cse321/assignment1
❯ ls -laR
.:
total 20
drwxrwxr-x 5 sabid sabid 4096 Dec  2 21:21 ./
drwxrwxr-x 3 sabid sabid 4096 Dec  2 18:52 ../
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:20 24241119_4.txt
drwxrwxr-x 2 sabid sabid 4096 Dec  2 21:21 sabidmahmud1/
drwxrwxr-x 2 sabid sabid 4096 Dec  2 21:23 sabidmahmud2/
drwxrwxr-x 3 sabid sabid 4096 Dec  2 21:24 sabidmahmud3/

./sabidmahmud1:
total 8
drwxrwxr-x 2 sabid sabid 4096 Dec  2 21:21 ./
drwxrwxr-x 5 sabid sabid 4096 Dec  2 21:21 ../
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:20 24241119_1.txt
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:22 24241119_2.txt
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:20 24241119_3.txt

./sabidmahmud2:
total 8
drwxrwxr-x 2 sabid sabid 4096 Dec  2 21:23 ./
drwxrwxr-x 5 sabid sabid 4096 Dec  2 21:21 ../
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:23 24241119_1.txt
-rw-rw-r-- 1 sabid sabid    0 Dec  2 21:23 24241119_2.txt

./sabidmahmud3:
total 12
drwxrwxr-x 3 sabid sabid 4096 Dec  2 21:24 ./
drwxrwxr-x 5 sabid sabid 4096 Dec  2 21:21 ../
drwxr-xr-x 2 sabid sabid 4096 Dec  2 21:24 sabidmahmud1/

./sabidmahmud3/sabidmahmud1:
total 8
drwxr-xr-x 2 sabid sabid 4096 Dec  2 21:24 ./
drwxrwxr-x 3 sabid sabid 4096 Dec  2 21:24 ../
-rwxr-xr-x 1 sabid sabid    0 Dec  2 21:24 24241119_1.txt*
-rwxr-xr-x 1 sabid sabid    0 Dec  2 21:24 24241119_2.txt*
-rwxr-xr-x 1 sabid sabid    0 Dec  2 21:24 24241119_3.txt*

academic/cse321/assignment1
```

Task:

- Move the `sabidmahmud3` directory to the root directory and delete the rest of the files and folders in the current working directory.

Screenshot:



All the commands:

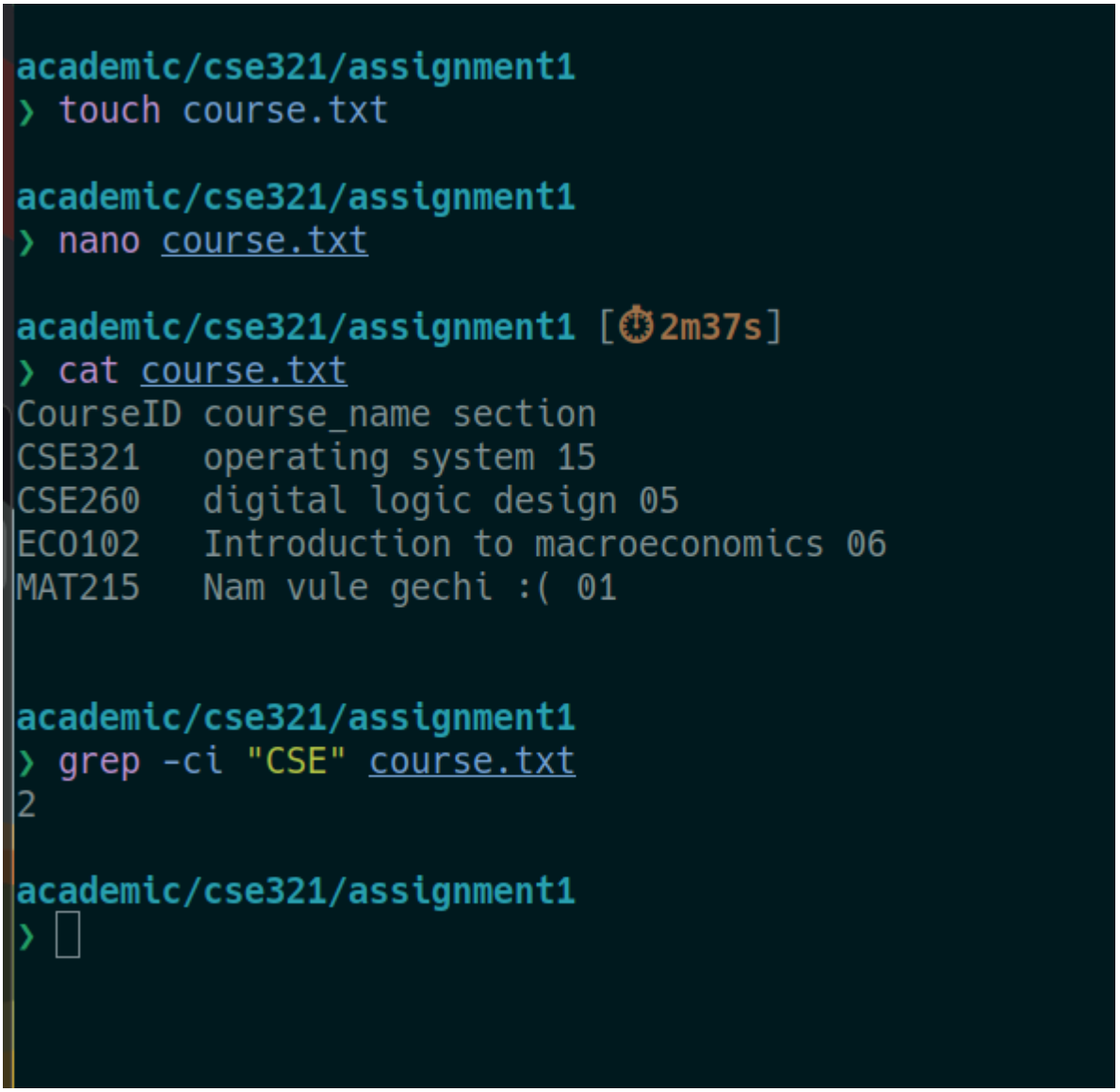
```
touch 24241119_1.txt 24241119_2.txt 24241119_3.txt 24241119_4.txt

mkdir sabidmahmud1 sabidmahmud2

mv 24241119_1.txt 24241119_2.txt 24241119_3.txt sabidmahmud1/

cd sabidmahmud1
cp 24241119_1.txt 24241119_2.txt sabidmahmud2/

cd ..
mkdir sabidmahmud3

cp -r sabidmahmud1 sabidmahmud3/

cd SabidMahmud3

ls -l
chmod -R 755 *

ls -l

cd ..

sudo mv sabidmahmud3 /

rm -R *

ls
```

Answer to question (b)

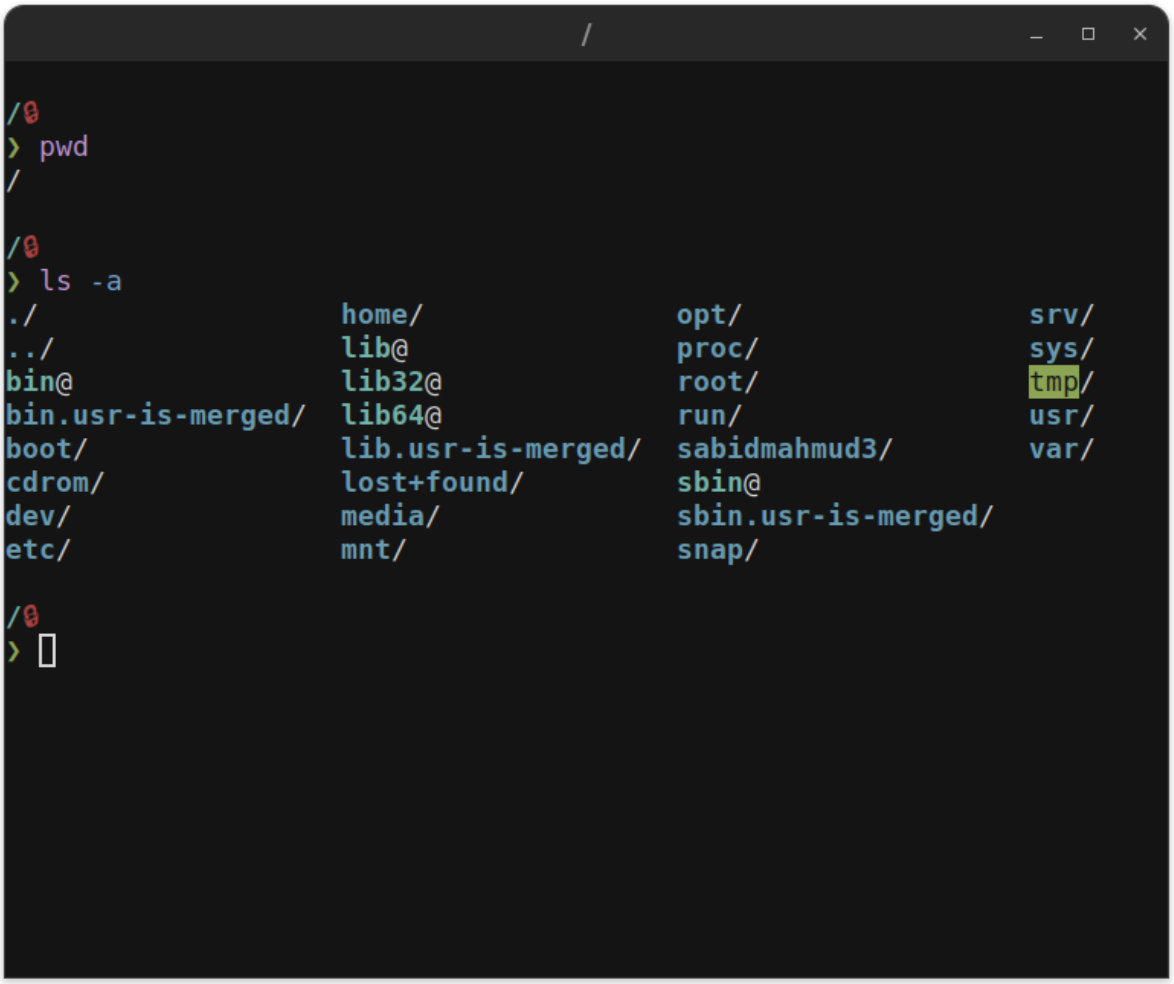
Task:

- Create a file containing the running semester's course information and count the lines containing CSE in that file named course.txt

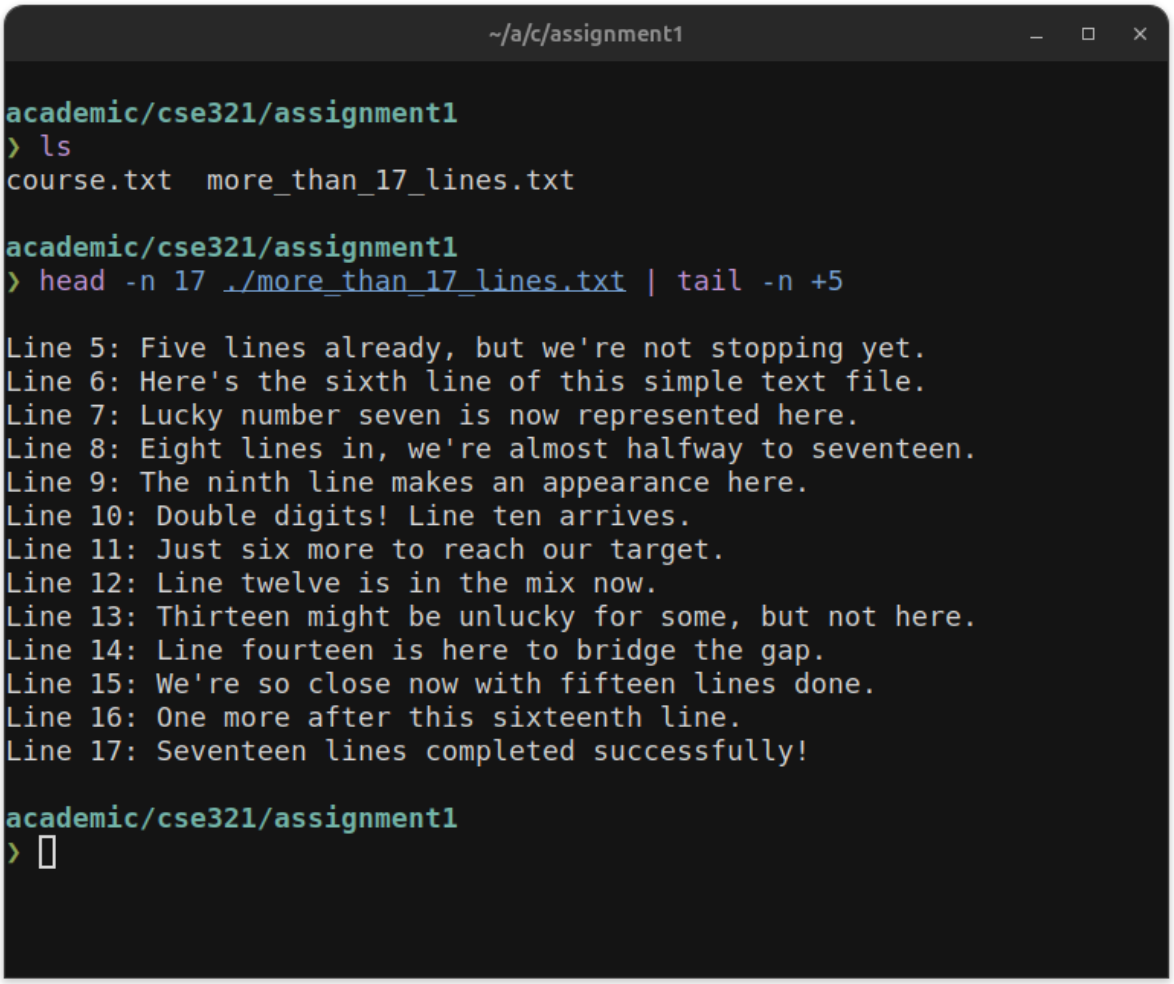
Screenshot:



(C) Task:
Show all the hidden files in the root directory:

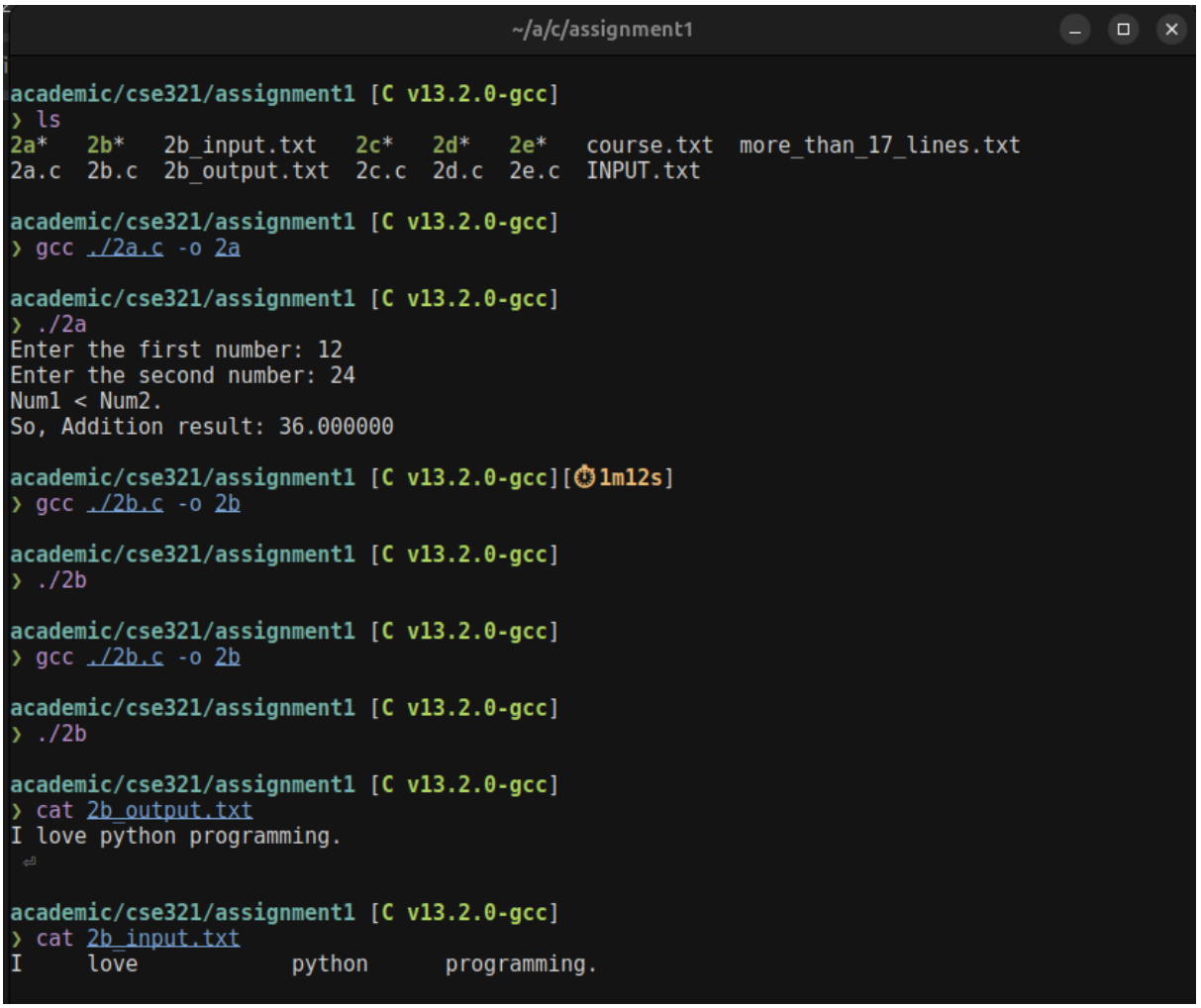


d.
Show only lines 5-17 of a text file.

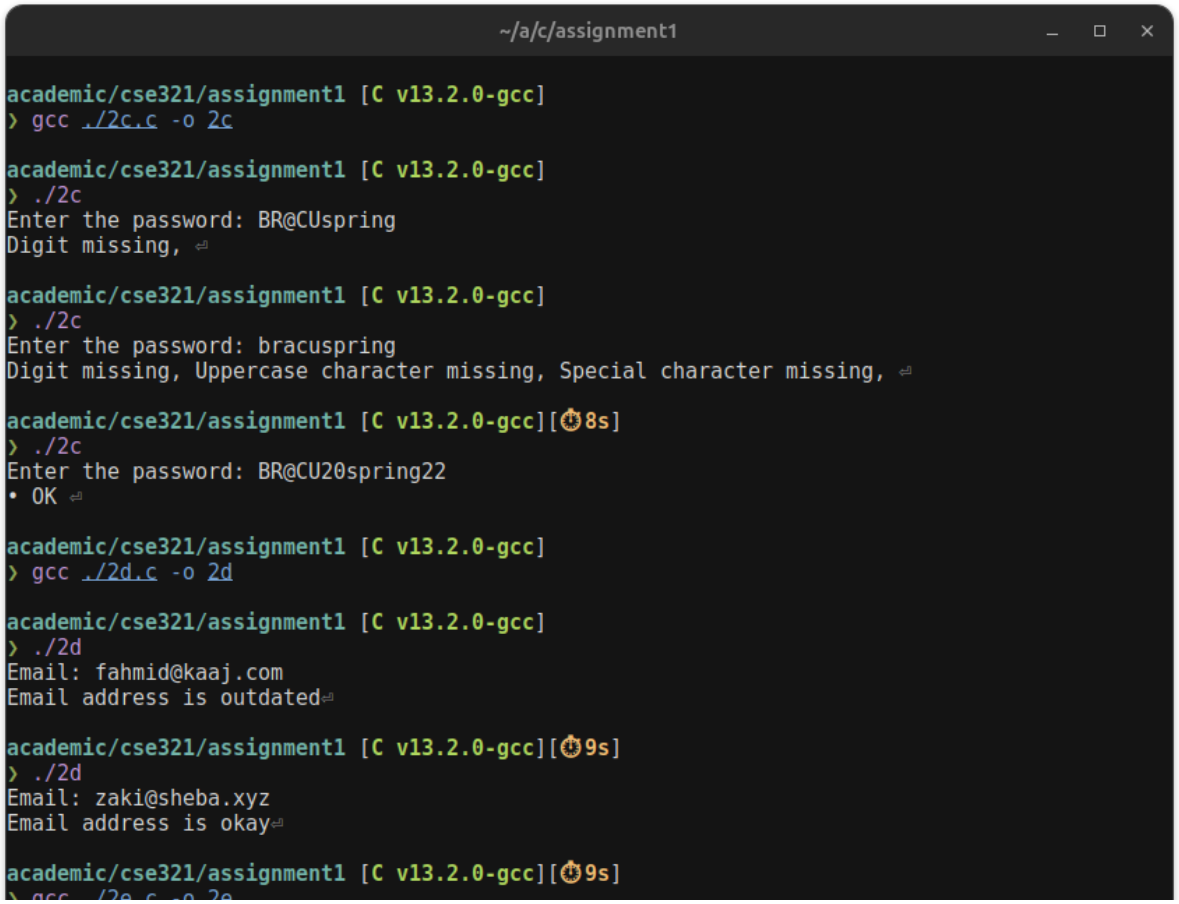


Screen Shots of running the C files:

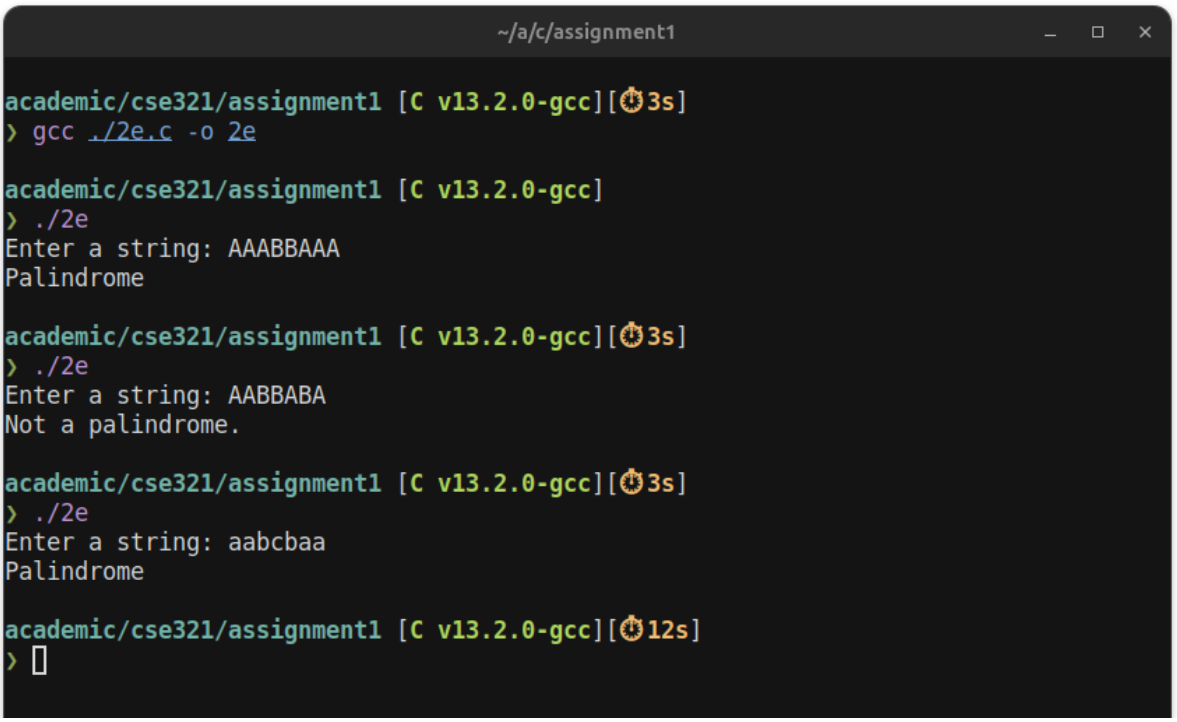
Running 2(a), 2(b)



Running 2(c), 2(d):



2(e):


~/a/c/assignment1
academic/cse321/assignment1 [C v13.2.0-gcc][3s]
❯ gcc ./2e.c -o 2e
academic/cse321/assignment1 [C v13.2.0-gcc]
❯ ./2e
Enter a string: AAABBAAA
Palindrome
academic/cse321/assignment1 [C v13.2.0-gcc][3s]
❯ ./2e
Enter a string: AABBABA
Not a palindrome.
academic/cse321/assignment1 [C v13.2.0-gcc][3s]
❯ ./2e
Enter a string: aabcbaa
Palindrome
academic/cse321/assignment1 [C v13.2.0-gcc][12s]
❯