

Task 1a:

Create 4 files named yourID_1.txt, yourID_2.txt, yourID_3, yourID_4.txt :

```
touch 21201742_1.txt 21201742_2.txt
```

Create 2 directories named YourName1, YourName2:

```
mkdir SreyaMajumder1 SreyaMajumder2
```

Move yourID_1.txt, yourID_2.txt, yourID_3.txt in YourName1 directory:

```
mv 21201742_1.txt 21201742_2.txt 21201742_3.txt SreyaMajumder1
```

Copy yourID_1.txt, yourID_2.txt YourName2 directory:

```
cp /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajumder1/21201742_1.txt  
/home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajumder1/21201742_2.txt  
/home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajumder2
```

Create another directory named YourName3:

```
mkdir SreyaMajumder3
```

Copy YourName1 directory along with its contents to the YourName3 directory:

```
cp -r /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajumder1  
/home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajumder3
```

Change Directory:

```
cd SreyaMajumder3
```

Check Permission:

```
ls -l
```

Change Permission :

```
chmod 755 SreyaMajumder1
```

Previous Directory:

```
cd ..
```

Printing all the directories and files in current directory:

```
ls -a
```

Move SreyaMajumder3 to root directory:

```
sudo mv SreyaMajumder3 /
```

Delete the rest of the files in the current directory:

```
rm -r *
```

```
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch 21201742_1.txt 21201742_2.txt 21201742_3.txt 21201742_4.txt
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ mkdir SreyaMajunder1 SreyaMajunder2
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ mv 21201742_1.txt 21201742_2.txt 21201742_3.txt SreyaMajunder1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ cp /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder1/21201742_1.txt /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder1/21201742_2.txt /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder2
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ mkdir SreyaMajunder3
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ cp -r /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder1 /home/ubuntu/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder3
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ cd SreyaMajunder3
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder3$ ls -l
total 4
drwxrwxr-x 2 ubuntu ubuntu 4096 Jun 18 16:01 SreyaMajunder1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder3$ chmod 755 SreyaMajunder1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder3$ ls -l
total 4
drwxr-xr-x 2 ubuntu ubuntu 4096 Jun 18 16:01 SreyaMajunder1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1/SreyaMajunder3$ cd ..
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ls -a
. 21201742_4.txt SreyaMajunder1 SreyaMajunder2 SreyaMajunder3
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ sudo mv SreyaMajunder3 /
[sudo] password for ubuntu:
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ rm -r *
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 1b:

touch course.txt

gedit course.txt

grep CSE course.txt | wc -l

```
Jun 18 16:13
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch course.txt
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit course.txt
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ grep CSE course.txt | wc -l
4
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ cat course.txt
CSE321 Operating System Section13
CSE340 Computer Architecture Section9
CSE460 VLSI Design Section3
CSE461 IntroductionToRobotics Section2
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 1c:

ls -a /

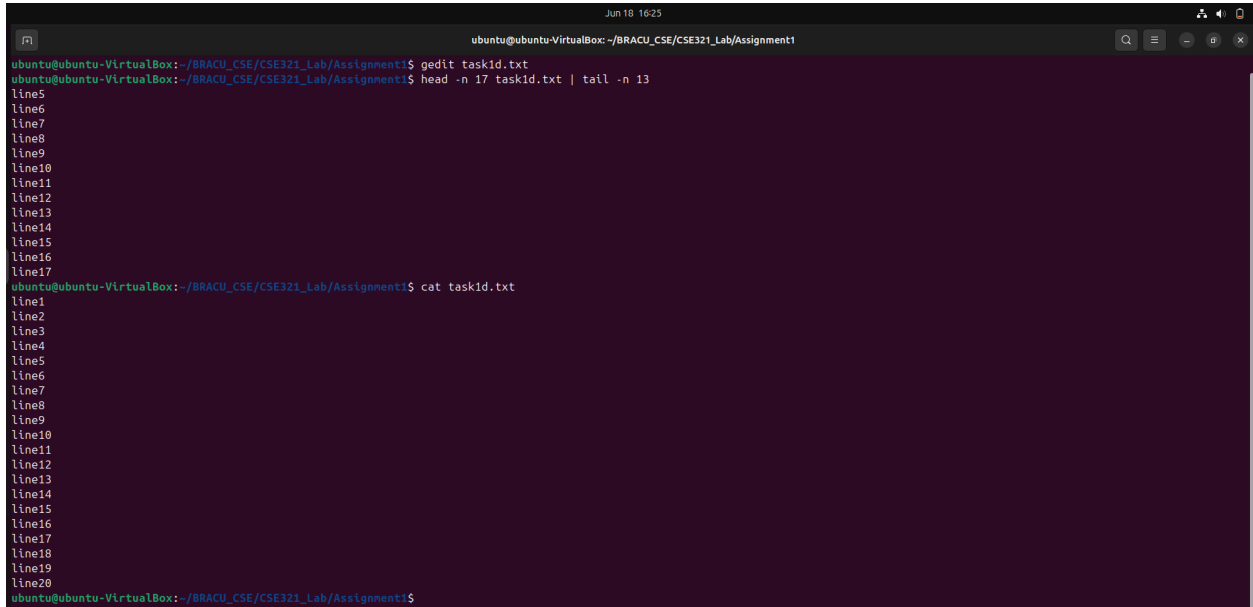
```
Jun 18 16:15
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ls -a /
.  bin      boot  dev  home  lib64  lost+found  mnt  proc  run  sbin  usr-is-merged  SreyaMajunder3  swap.ing  var
.  bin  usr-is-merged  cdrom  etc  lib  lib  usr-is-merged  media  opt  root  sbin  snap  srv  sys  var
```

Task 1d:

touch task1d.txt

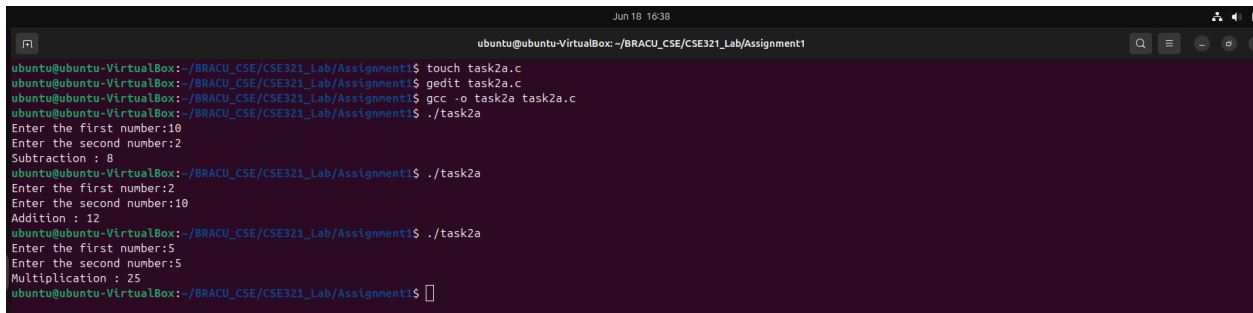
gedit task1d.txt

head -n 17 task1d.txt | tail -n 13

A terminal window titled 'ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1' showing the execution of commands to create and view a file. The user runs 'gedit task1d.txt', then 'head -n 17 task1d.txt | tail -n 13', which displays lines 5 through 17 of the file. Finally, the user runs 'cat task1d.txt', displaying the entire content of the file from line 1 to line 20.

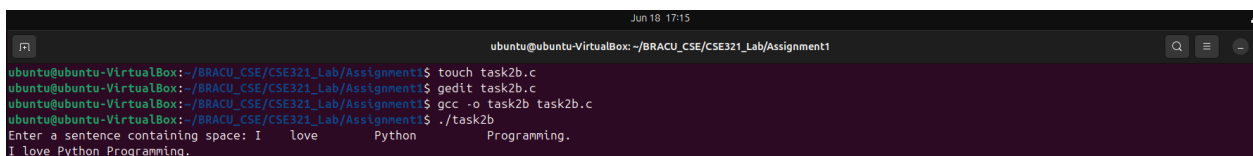
```
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task1d.txt
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ head -n 17 task1d.txt | tail -n 13
line5
line6
line7
line8
line9
line10
line11
line12
line13
line14
line15
line16
line17
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ cat task1d.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
line11
line12
line13
line14
line15
line16
line17
line18
line19
line20
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 2a:

A terminal window titled 'ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1' showing the execution of commands to create a file and run a program. The user runs 'touch task2a.c', 'gedit task2a.c', and 'gcc -o task2a task2a.c'. Then, they run './task2a' three times, each time entering two numbers to perform subtraction, addition, and multiplication respectively.

```
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch task2a.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task2a.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gcc -o task2a task2a.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2a
Enter the first number:10
Enter the second number:2
Subtraction : 8
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2a
Enter the first number:2
Enter the second number:10
Addition : 12
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2a
Enter the first number:5
Enter the second number:5
Multiplication : 25
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 2b:

A terminal window titled 'ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1' showing the execution of commands to create a file and run a program. The user runs 'touch task2b.c', 'gedit task2b.c', and 'gcc -o task2b task2b.c'. Then, they run './task2b', which prompts them to enter a sentence containing the words 'I', 'love', 'Python', and 'Programming' in that order.

```
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch task2b.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task2b.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gcc -o task2b task2b.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2b
Enter a sentence containing space: I    love    Python    Programming.
I love Python Programming.
```

Task 2c:

```
Jul 7 05:10
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch task2c.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task2c.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gcc -o task2c task2c.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2c
Please enter your password: BR@CUSpring
Digit missingubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2c
Please enter your password: bracuspring
Uppercase character missing, Digit missing, Special character missingubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2c
Please enter your password: BR@CUSpring22
OK
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 2d:

```
Jul 7 05:24
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch task2d.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task2d.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gcc -o task2d task2d.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2d
Please Enter your email: fahmid@kaaaj.com
Email address is outdated
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2d
Please Enter your email: zaki@sheba.xyz
Email address is okay
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```

Task 2e:

```
Jul 7 18:18
ubuntu@ubuntu-VirtualBox: ~/BRACU_CSE/CSE321_Lab/Assignment1
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ touch task2e.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gedit task2e.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ gcc -o task2e task2e.c
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2e
Please enter a string: AAABBAAA
Palindrome
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2e
Please enter a string: AABBBABA
Not palindrome
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$ ./task2e
Please enter a string: aabcbaa
Palindrome
ubuntu@ubuntu-VirtualBox:~/BRACU_CSE/CSE321_Lab/Assignment1$
```