

Question 1:

Answer of a:

```
touch 24241332_1.txt
touch 24241332_2.txt
touch 24241332_3.txt
touch 24241332_4.txt
mkdir ishmam1
mkdir ishmam2
// here I first copied then moved, if I first moved
then wanted to copy, then I would need to go to
ishmam1 then copy to ishmam2
cp 24241332_1.txt ishmam2
cp 24241332_2.txt ishmam2
mv 24241332_1.txt ishmam1
mv 24241332_2.txt ishmam1
mv 24241332_3.txt ishmam1
mkdir ishmam3
cp -r ishmam1 ishmam3/
cd ishmam3
chmod -R go=rx ishmam1
ls -l
cd ..
ls -l
sudo mv ishmam3 /
rm -r 24241332_4.txt ishmam1 ishmam2
```

```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition... $ touch 24241332_1.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ touch 24241332_2.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ touch 24241332_3.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ touch 24241332_4.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ mkdir ishmam1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ mkdir ishmam2
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ ls
24241332_1.txt 24241332_3.txt ishmam1
24241332_2.txt 24241332_4.txt ishmam2
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ 
```

```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition... $ ls
24241332_4.txt ishmam1 ishmam2
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ cd ishmam1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam1$ ls
24241332_1.txt 24241332_2.txt 24241332_3.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam1$ cd ishmam2
bash: cd: ishmam2: No such file or directory
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam1$ cd ..
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ cd ishmam2
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam2$ ls
24241332_1.txt 24241332_2.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam2$ 
```

```
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition... 
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ mkdir ishmam3
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ ls
24241332_4.txt ishmam1 ishmam2 ishmam3
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ 
```

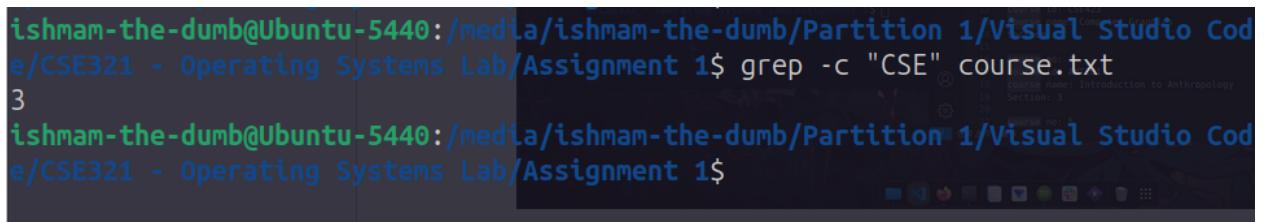
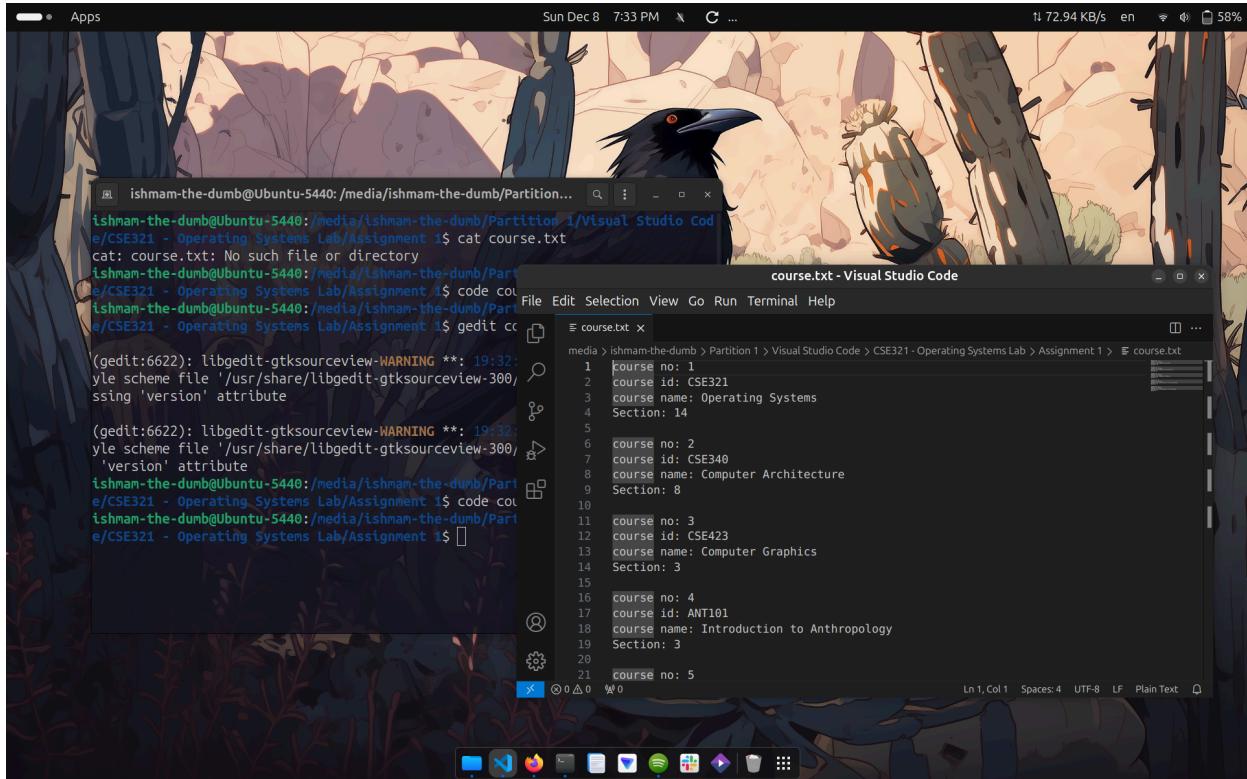
```
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition... 
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1$ cd ishmam3
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ ls
ishmam1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam3$ chmod -R go=rx Ishmam1
chmod: cannot access 'Ishmam1': No such file or directory
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam3$ chmod -R go=rx ishmam1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam3$ ls -l
total 4
drwxr-xr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 19:03 ishmam1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod
e/CSE321 - Operating Systems Lab/Assignment 1/ishmam3$ 
```

```
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition... e/CSE321 - Operating Systems Lab/Assignment 1$ cd ishmam3  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ ls  
ishmam1  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ chmod -R go=rx Ishmam1  
chmod: cannot access 'Ishmam1': No such file or directory  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ chmod -R go=rx ishmam1  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ ls -l  
total 4  
drwxr-xr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 19:03 ishmam1  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1/ismam3$ cd ..  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ ls -l  
total 12  
-rw-rw-r-- 1 ishmam-the-dumb ishmam-the-dumb    0 Dec  8 18:36 24241332_4.txt  
drwxrwxr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 18:47 ishmam1  
drwxrwxr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 18:48 ishmam2  
drwxrwxr-x 3 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 19:03 ishmam3  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ 
```

```
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition... e/CSE321 - Operating Systems Lab/Assignment 1$ ls -l  
total 12  
-rw-rw-r-- 1 ishmam-the-dumb ishmam-the-dumb    0 Dec  8 18:36 24241332_4.txt  
drwxrwxr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 18:47 ishmam1  
drwxrwxr-x 2 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 18:48 ishmam2  
drwxrwxr-x 3 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 19:03 ishmam3  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ sudo mv ishmam3/  
[sudo] password for ishmam-the-dumb:  
mv: missing destination file operand after 'ishmam3/'  
Try 'mv --help' for more information.  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ sudo mv ishmam3 /  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ ls  
24241332_4.txt ishmam1 ishmam2  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ rm -r 24241332_4.txt ishmam1 ishmam2  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ ls  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Cod e/CSE321 - Operating Systems Lab/Assignment 1$ 
```

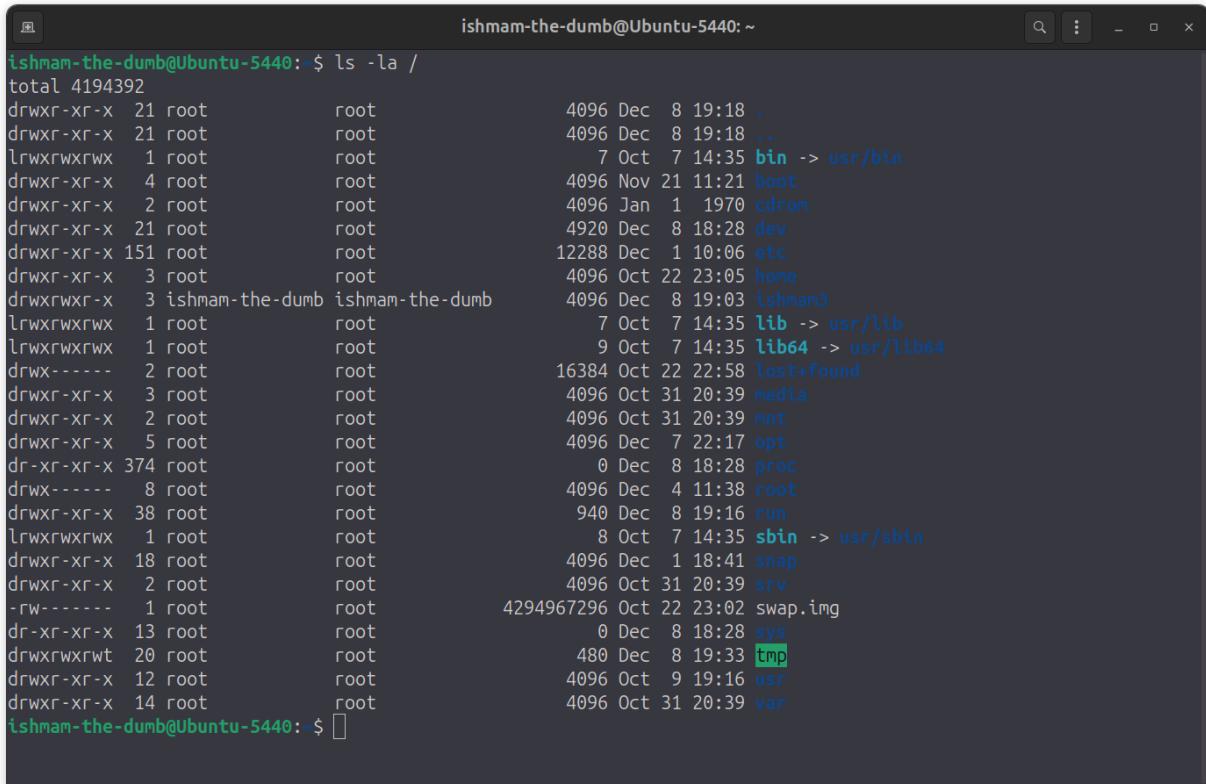
Answer to B:

```
touch course.txt  
code course.txt / gedit course.txt  
grep -c "CSE" course.txt
```



Answer c:

ls -la /



A screenshot of a terminal window titled "ishmam-the-dumb@Ubuntu-5440: ~". The window displays the command "ls -la /" and its output. The output shows a detailed listing of files and directories in the root directory, including their permissions, ownership, modification times, and names. Some entries are color-coded in blue, such as "bin", "lib", "sbin", "tmp", and "var". The terminal window has a dark background and light-colored text.

```
ishmam-the-dumb@Ubuntu-5440: $ ls -la /
total 4194392
drwxr-xr-x 21 root      root          4096 Dec  8 19:18 .
drwxr-xr-x 21 root      root          4096 Dec  8 19:18 ..
lrwxrwxrwx  1 root      root          7 Oct  7 14:35 bin  -> usr/bin
drwxr-xr-x  4 root      root          4096 Nov 21 11:21 boot
drwxr-xr-x  2 root      root          4096 Jan  1 1970 cdrom
drwxr-xr-x 21 root      root          4920 Dec  8 18:28 dev
drwxr-xr-x 151 root     root         12288 Dec  1 10:06 etc
drwxr-xr-x  3 root      root          4096 Oct 22 23:05 home
drwxrwxr-x  3 ishmam-the-dumb ishmam-the-dumb 4096 Dec  8 19:03 ishmam3
lrwxrwxrwx  1 root      root          7 Oct  7 14:35 lib  -> usr/lib
lrwxrwxrwx  1 root      root          9 Oct  7 14:35 lib64 -> usr/lib64
drwx----- 2 root      root          16384 Oct 22 22:58 lost+found
drwxr-xr-x  3 root      root          4096 Oct 31 20:39 media
drwxr-xr-x  2 root      root          4096 Oct 31 20:39 mnt
drwxr-xr-x  5 root      root          4096 Dec  7 22:17 opt
dr-xr-xr-x 374 root     root          0 Dec   8 18:28 proc
drwx----- 8 root      root          4096 Dec  4 11:38 root
drwxr-xr-x 38 root     root          940 Dec  8 19:16 run
lrwxrwxrwx  1 root      root          8 Oct  7 14:35 sbin -> usr/sbin
drwxr-xr-x 18 root     root          4096 Dec  1 18:41 snap
drwxr-xr-x  2 root      root          4096 Oct 31 20:39 srv
-rw------- 1 root      root        4294967296 Oct 22 23:02 swap.img
dr-xr-xr-x 13 root     root          0 Dec   8 18:28 sys
drwxrwxrwt 20 root     root          480 Dec  8 19:33 tmp
drwxr-xr-x 12 root     root          4096 Oct  9 19:16 usr
drwxr-xr-x 14 root     root          4096 Oct 31 20:39 var
ishmam-the-dumb@Ubuntu-5440: $
```

Answer d:

```
touch taskd.txt
code taskd.txt / gedit taskd.txt
sed -n '5,17p' taskd.txt
```

The screenshot shows a Linux desktop environment with a terminal window and a Visual Studio Code window. The terminal window at the bottom left shows the command history and the output of the command `sed -n '5,17p' taskd.txt`. The Visual Studio Code window at the top right shows the file 'taskd.txt' with content from line 5 to line 17.

```
ishmam-the-dumb@Ubuntu-5440: ~
ishmam-the-dumb@Ubuntu-5440: $ cd /media/ishmam-the-dumb/Partition 1/Visual Studio Code/
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code$ ls
'CSE321 - Operating Systems Lab' Java Python
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code$ cd Python
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/Python$ touch line.py
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/Python$ cat > line.py <<EOF
> for i in range(1,18):
>     print(f"Line Number : {i}")
> EOF
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/Python$ python3 line.py
Line Number : 1
Line Number : 2
Line Number : 3
Line Number : 4
Line Number : 5
Line Number : 6
Line Number : 7
Line Number : 8
Line Number : 9
Line Number : 10
Line Number : 11
Line Number : 12
Line Number : 13
Line Number : 14
Line Number : 15
Line Number : 16
Line Number : 17
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ touch taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ code taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ [ ]
```

File Edit Selection View Go Run Terminal Help
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn

taskd.txt - Visual Studio Code

```
taskd.txt
media > ishmam-the-dumb > Partition 1 > Visual Studio Code > CSE321 - Operating Systems Lab > CSE321 - Operating Systems Lab/Assignment 1$ touch taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ code taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ sed -n '5,17p' taskd.txt
```

Line Number : 1
Line Number : 2
Line Number : 3
Line Number : 4
Line Number : 5
Line Number : 6
Line Number : 7
Line Number : 8
Line Number : 9
Line Number : 10
Line Number : 11
Line Number : 12
Line Number : 13
Line Number : 14
Line Number : 15
Line Number : 16
Line Number : 17

The screenshot shows a terminal window with the command history and the output of the command `sed -n '5,17p' taskd.txt`.

```
ishmam-the-dumb@Ubuntu-5440: ~
ishmam-the-dumb@Ubuntu-5440: $ cd /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ touch taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ code taskd.txt
ishmam-the-dumb@Ubuntu-5440: /media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1$ sed -n '5,17p' taskd.txt
```

Line Number : 5
Line Number : 6
Line Number : 7
Line Number : 8
Line Number : 9
Line Number : 10
Line Number : 11
Line Number : 12
Line Number : 13
Line Number : 14
Line Number : 15
Line Number : 16
Line Number : 17

Question 2:

a)

```
ishmam-the-dumb@Ubuntu-5440:~/media/ishmam-the-dumb/Partition... 
ishmam-the-dumb@Ubuntu-5440:~$ cd /media/ishmam-the-dumb/Partition\ 1/Visual\ Studio\ Code/CSE321\ -\ Operating\ Systems\ Lab/Assignment\ 1/part2/
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ls
2a.c 2b.c 2c.c 2d.c 2e.c  fifth first fourth third
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./first
Enter the value of a: 3
Enter the value of b: 2
The subtraction result is: 1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./first
Enter the value of a: 1
Enter the value of b: 1
Both numbers are equal
The multiplication result is: 1
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./first
Enter the value of a: 3
Enter the value of b: 6
The addition result is: 9
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ 
```

b)

```
ishmam-the-dumb@Ubuntu-5440:~/media/ishmam-the-dumb/Partition... 
de/CSE321 - Operating Systems Lab/Assignment 1/part2$ gcc -o second 2b.c
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./second
Ajaira Spaces Has been Removed !
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ cat output.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ code input.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ code output.txt
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ 
```

File Edit Selection View Go Run Terminal Help

c 2b.c x

```
n-the-dumb > Partition 1 > Visual Studio Code > CSE321 - Operating Systems Lab > Assignment 1 > part2 > C 2b.c
1 #include <stdio.h>
2 #include <ctype.h>
3
4 int main(){
5     FILE *f1, *f2;
6     f1 = fopen("input.txt", "r");
7     f2 = fopen("output.txt", "w");
8     char ch, prevc = ' ';
9     // Read the input file
10    while ((ch = fgetc(f1)) != EOF)
11    {
12        //output file e lekhbo jodi edi space na hou
13        if ((isspace(ch) && isspace(prevc)) == 0)
14        {
15            fputc(ch, f2);
16        }
17        prevc = ch;
18    }
19    fclose(f1);
20    fclose(f2);
21    printf("Ajaira Spaces Has been Removed !\n");
22 }
```

input.txt - Visual Studio Code

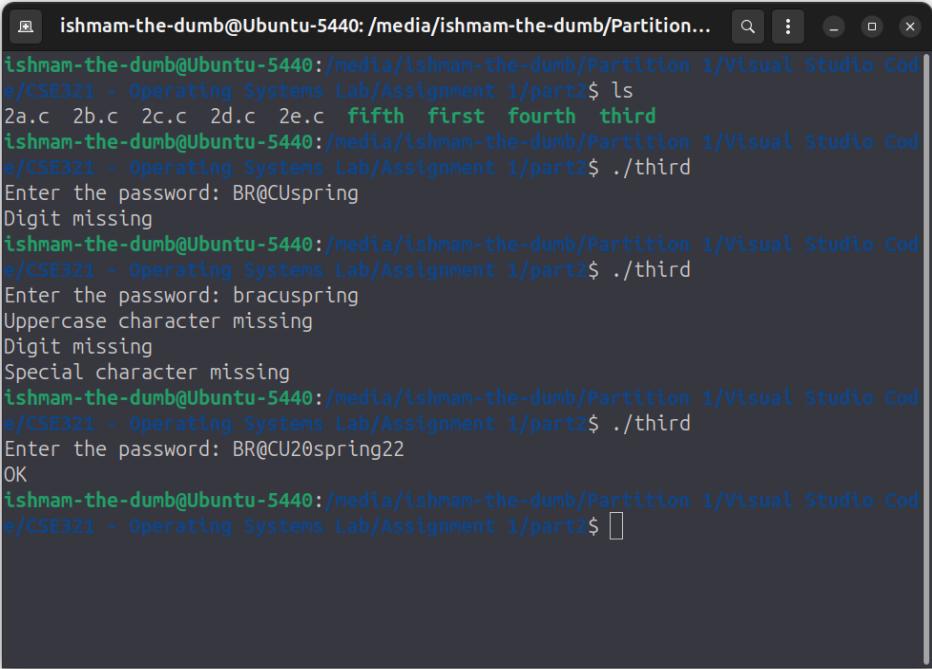
Ln 1, Col 45 Spaces: 4 UTF-8 LF Plain Text

media > ishmam-the-dumb > Partition 1 > Visual Studio Code > CSE321 - Operating Systems Lab > Assignment 1 > part2 > C 2b.c

output.txt - Visual Studio Code

Ln 1, Col 21 Spaces: 4 UTF-8 LF Plain Text

Ln 17, Col 21 Spaces: 4 UTF-8 LF C C Linux Q



```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ls  
2a.c 2b.c 2c.c 2d.c 2e.c fifth first fourth third  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./third  
Enter the password: BR@CUspring  
Digit missing  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./third  
Enter the password: bracuspring  
Uppercase character missing  
Digit missing  
Special character missing  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./third  
Enter the password: BR@CU20spring22  
OK  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ 
```

c)

d)



```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ls  
2a.c 2b.c 2c.c 2d.c 2e.c fifth first fourth third  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./fourth  
Enter the email: fahmid@kaaj.com  
Email address is outdated  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./fourth  
Enter the email: zaki@sheba.xyz  
Email address is okay  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ 
```

e)

```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition...     
```

```
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ls  
2a.c 2b.c 2c.c 2d.c 2e.c fifth first fourth third  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./fifth  
Enter a string: AAABBAAA  
Palindrome  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./fifth  
Enter a string: AABBABA  
Not a palindrome  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ ./fifth  
Enter a string: aabcbaa  
Palindrome  
ishmam-the-dumb@Ubuntu-5440:/media/ishmam-the-dumb/Partition 1/Visual Studio Code/CSE321 - Operating Systems Lab/Assignment 1/part2$ 
```