NUMBER 1

a

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$ touch 22141013_1.txt 22141013_2.txt 22141013_t3.txt 22141013_t3.txt
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ mkdir atiq1 atiq2 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ mv 22141013_1.txt 22141013_2.txt 22141013_3.txt atiq1
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cd atiq1
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq1$ ls
22141013_1.txt 22141013_2.txt 22141013_3.txt
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq1$
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-/atiq1$ cp 22141013_1.txt 22141013_2.txt /home/atiq/atiq2
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq1$ cd ...
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cd atiq2
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq2$ ls
22141013_1.txt 22141013_2.txt
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq2$ ~
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ mkdir atiq3
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cp -r atiq1 atiq3
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cd atiq3
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ ls
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ cd atiq1
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3/atiq1$ ls
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cd atiq3
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ ls -l
drwxr--r-- 2 atiq atiq 4096 Jul 10 18:21 atiq1
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ ls -l atiq1
 -rw-rw-r-- 1 atiq atiq 0 Jul 10 18:21 22141013_1.txt
-rw-rw-r-- 1 atiq atiq 0 Jul 10 18:21 22141013_2.txt
 -rw-rw-r-- 1 atiq atiq 0 Jul 10 18:21 22141013_3.txt
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-/atiq3$ chmod -R go=rx atiq3 chmod: cannot access 'atiq3': No such file or directory
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ chmod -R go=rx atiq3
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ls -l
drwxrwxr-x 2 atiq atiq 4096 Jul 10 18:17 atiq1
drwxrwxr-x 2 atiq atiq 4096 Jul 10 18:19 atiq2
drwxr-xr-x 3 atiq atiq 4096 Jul 10 18:21 atiq3
drwxr-xr-x 2 atiq atiq 4096 Jun 8 07:36 Desktop
drwxr-xr-x 2 atiq atiq 4096 Jun 8 07:36 Documents drwxr-xr-x 2 atiq atiq 4096 Jul 3 20:26 Downloads
drwxr-xr-x 2 atiq atiq 4096 Jul 3 20:26 Downtoads drwxr-xr-x 2 atiq atiq 4096 Jul 3 19:56 Pictures drwxr-xr-x 2 atiq atiq 4096 Jul 4 01:34 practice drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Public drwx----- 7 atiq atiq 4096 Jul 3 21:00 snap drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Templates
drwxr-xr-x 2 atiq atiq 4096 Jun 8 07:36 Videos
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cd atiq3
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ ls -l
 total 4
drwxr-xr-x 2 atiq atiq 4096 Jul 10 18:21 atiq1
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$ ls -l atiq1
 total 0
 -rw-r-xr-x 1 atiq atiq 0 Jul 10 18:21 22141013_1.txt
-rw-r-xr-x 1 atiq atiq 0 Jul 10 18:21 22141013_2.txt
-rw-r-xr-x 1 atiq atiq 0 Jul 10 18:21 22141013_3.txt
 atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~/atiq3$
```

```
atigatic vivoleok-ADMIaptop-S31F1-X312F1: $ cd atiq3
atigatic vivoleok-ADMIaptop-S31F1-X312F1: $ cd ...

**Total 32**
**Control 44**
**Control 45**
**Contro
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$ ls -l

total 48

drwxrwxr-x 2 atiq atiq 4096 Jul 10 18:17 atiq1

drwxrwxr-x 2 atiq atiq 4096 Jul 8 07:36 Desktop

drwxr-xr-x 2 atiq atiq 4096 Jun 8 07:36 Desktop

drwxr-xr-x 2 atiq atiq 4096 Jul 3 20:26 Downloads

drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Music

drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Music

drwxr-xr-x 3 atiq atiq 4096 Jul 3 19:56 Pictures

drwxr-xr-x 2 atiq atiq 4096 Jul 4 01:34 practice

drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Public

drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Public

drwxr-xr-x 2 atiq atiq 4096 Jul 8 07:36 Videos

atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$ rm -r atiq1 atiq2

atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$ ls

Desktop Documents Downloads Music Pictures practice Public snap Templates Videos

atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$ []
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cat >>course.txt
CSE321
Operating Systems
02
CSE330
Numerical Methods
CSE446
Advance Algorithms
MAT215
Mathematics III:Complex Variables & Laplace Transformations
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cat course.txt
CSE321
Operating Systems
02
CSE330
Numerical Methods
08
CSE446
Advance Algorithms
01
MAT215
Mathematics III:Complex Variables & Laplace Transformations
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ grep -c CSE course.txt
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```

C

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:/$ ls -a
. bin.usr-is-merged etc lib.usr-is-merged opt sbin swap.img var
.. boot home lost+found proc sbin.usr-is-merged sys
atiq3 cdrom lib media root snap
bin dev lib64 mnt run srv usr
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:/$
```

d

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ sed -n '5,17p' course.txt
Numerical Methods
08
CSE446
Advance Algorithms
01
MAT215
Mathematics III:Complex Variables & Laplace Transformations
Semester:
Summer 2024
Lab Faculties:-
CSE321:-
MAO
FBL
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```

NUMBER 2

a

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cat a.c
#include <stdio.h>
int main(){
int value1,value2;
printf("Enter value 1:- \n");
scanf("%d",&value1);
printf("Enter value 2:- \n");
scanf("%d",&value2);
if (value1>value2){
int result=value1-value2;
printf("The result is :- %d\n",result);
else if (value1<value2){
int result=value2+value1;
printf("The result is:- %d\n",result);
else{
int result=value1*value2;
printf("The result is:- %d\n",result);
return 0;
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ gcc -o a1 a.c
atig@atig-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./a1
Enter value 1:-
20
Enter value 2:-
10
The result is :- 10
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./a1
Enter value 1:-
10
Enter value 2:-
20
The result is:- 30
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./a1
Enter value 1:-
10
Enter value 2:-
10
The result is: - 100
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cat b.c
#include <stdio.h>
#include <string.h>
int main() {
FILE *source = NULL, *destination = NULL;
char src[] = "/home/atiq/input.txt";
char desti[] = "/home/atiq/output.txt";
char st[1024];
char *st1;
source = fopen(src, "r");
destination = fopen(desti, "w");
while (fgets(st, sizeof(st), source) != NULL) {
st1 = strtok(st, " ");
while (st1 != NULL)
{fputs(st1, destination);
st1 = strtok(NULL, " ");
if (st1 != NULL) {
fputc(' ', destination);
fclose(source);
fclose(destination);
return 0;
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```

C

```
if (!lower)
{
    if (!status) printf(", ");
    printf("Lowercase character missing");
    status = 0;
}
if (!number) {
    if (!status) printf(", ");
    printf("Digit missing");
    status = 0;
}
if (!special)
{
    if (!status) printf(", ");
    printf("Special character missing");
    status = 0;
}
}
printf("\n");
return 0;
}
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:-$
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ gcc -o d1 d.c
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./d1
Please enter the email: atiq@sheba.xyz
Email address is ok
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./d1
Please enter the email: atiq@gmail.com
Email address is outdated
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ cat d.c
#include <stdio.h>
#include <string.h>
int main() {
char email[1024];
int j;
printf("Please enter the email: ");
scanf("%s", email);
for (int i = 0; i < strlen(email); i++) {</pre>
if (email[i] == '@')
j = i + 1;
break;
if (strcmp(email + j, "sheba.xyz")==0)
printf("Email address is ok\n");
else
printf("Email address is outdated\n");
return 0;
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```

```
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ gcc -o e1 e.c
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./e1
AAABBAAA
Pallindrome
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./e1
AABBABA
Not Pallindrome
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$ ./e1
aabcbaa
Pallindrome
atiq@atiq-VivoBook-ASUSLaptop-X512FL-X512FL:~$
```