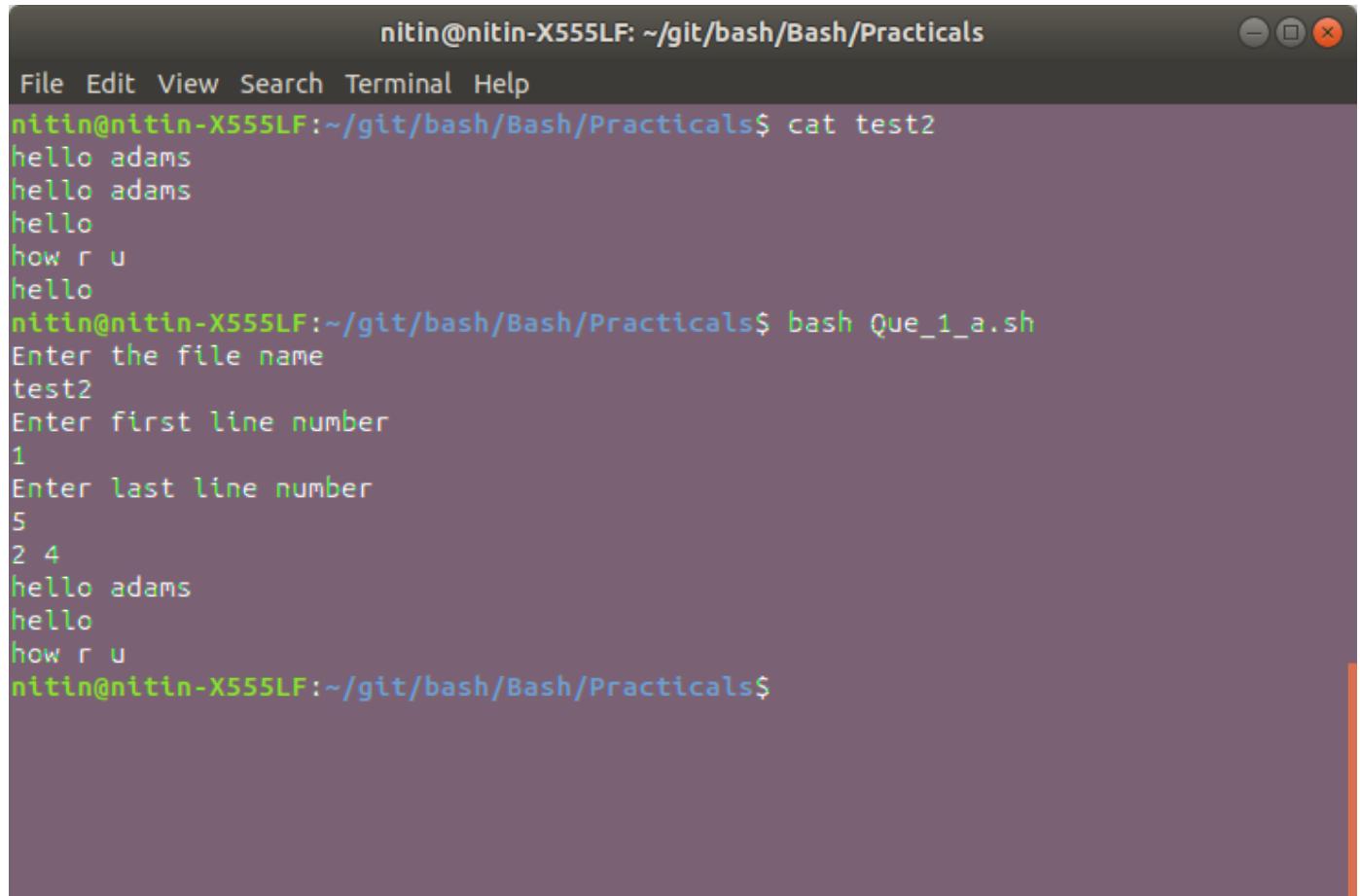


NOTE OUTPUT ARE ADDED IN SEQUENCE OF CSVTU SYLLABUS ONLY.IT IS RECOMMENDED TO WRITE IN SAME SEQUENCE ONLY

DONT'T NUMBER THE EXPERIMENT AS WE WILL DECIDE IT ON SUNDAY

ALWAYS LOOK AT MY README WHICH IS AT START OF REPO



The screenshot shows a terminal window with the following session:

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals$ cat test2
hello adams
hello adams
hello
how r u
hello
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_1_a.sh
Enter the file name
test2
Enter first line number
1
Enter last line number
5
2 4
hello adams
hello
how r u
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ cat test3
one
one two
one one
three
four
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_1_b.sh test3
three
four
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ls -l
total 68
drwxr-xr-x 2 nitin nitin 4096 Oct 30 21:26 nitin
-rw-r--r-- 1 nitin nitin 376 Oct 30 21:26 Que_12_a.sh
-rw-r--r-- 1 nitin nitin 287 Oct 30 21:26 Que_12_b.sh
-rw-r--r-- 1 nitin nitin 150 Oct 30 21:26 Que_12_c.sh
-rw-r--r-- 1 nitin nitin 249 Oct 30 21:26 Que_16_c.sh
-rw-r--r-- 1 nitin nitin 420 Oct 30 21:26 Que_1_a.sh
-rw-r--r-- 1 nitin nitin 263 Oct 30 21:26 Que_1_b.sh
-rw-r--r-- 1 nitin nitin 282 Oct 30 21:26 Que_2_a.sh
-rw-r--r-- 1 nitin nitin 473 Oct 30 21:26 Que_2_b.sh
-rw-r--r-- 1 nitin nitin 229 Oct 30 21:26 Que_3_a.sh
-rw-r--r-- 1 nitin nitin 322 Oct 30 21:26 Que_3_b.sh
-rw-r--r-- 1 nitin nitin 105 Oct 30 21:26 Que_4_a.awk
-rw-r--r-- 1 nitin nitin 155 Oct 30 21:26 Que_4_b.awk
-rw-r--r-- 1 nitin nitin 394 Oct 30 21:26 Que_5.sh
-rwxr-xr-x 1 nitin nitin 47 Oct 30 21:26 test1
-rw-r--r-- 1 nitin nitin 44 Oct 30 21:26 test2
-rw-r--r-- 1 nitin nitin 32 Oct 30 21:31 test3
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_2_a.sh
test1
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ cat test2
hello adams
hello adams
hello
how r u
hello
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_2_b.sh test2 test3 nitin
The test2 is a File containing 5 Lines
The test3 is a File containing 5 Lines
The nitin is a Directory
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_3_a.sh
Enter any directory name
nitin
listing dirctory contents
nitin1 nitin2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_3_b.sh
Enter number you want to calculate factorial of
5
The factorial of 5 is 120
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ cat test2
hello adams
hello adams
hello
how r u
hello
bcdfgh
klmnpqr
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ awk -f Que_4_a.awk test2
Number of lines doesnot contating vowels are 2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ cat test1
hello adams
this is one
one
not one
two
three
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ awk -f Que_4_b.awk test1
CHARACTERS      WORDS      LINES
41              10          6
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_5.sh test2 test1
Word: hello,Count = 1
Word: adams,Count = 1
Word: hello,Count = 1
Word: adams,Count = 1
Word: hello,Count = 1
Word: how,Count = 0
Word: r,Count = 1
Word: u,Count = 0
Word: hello,Count = 1
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ gcc Que_5_b.c -o cp_sys
nitin@nitin-X555LF:~/git/Bash/Practicals$ ./cp_sys nitin2 nitin5
nitin@nitin-X555LF:~/git/Bash/Practicals$ cat nitin2
inode
nitin
nitin2
Q_8_a.c
Q_8_b.c
redirct
nitin@nitin-X555LF:~/git/Bash/Practicals$ cat nitin5
inode
nitin
nitin2
Q_8_a.c
Q_8_b.c
redirct
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_7.sh nitin2
Given name is a file as nitin2
Type of file/directory : nitin2
nitin2: ASCII text
Last access time is:
15:51
no.of links:
3
Que_7.sh: line 17: [: too many arguments
nitin2 does not contain all permissions
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ gcc -o inode Q_8_a.c
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ./inode nitin2
9176944 nitin2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ gcc -o redirect Q_8_b.c
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ./redirect nitin4
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ cat nitin4
comb
inode
nitin
nitin2
nitin4
output_1.pdf
Q_8_a.c
Q_8_b.c
Q_9_b.c
Que_12_a.sh
Que_12_b.sh
Que_12_c.sh
Que_14_a.sh
Que_14_b.sh
Que_14_c.sh
Que_16_c.sh
Que_1_a.sh
Que_1_b.sh
Que_2_a.sh
Que_2_b.sh
Que_3_a.sh
Que_3_b.sh
Que_4_a.awk
Que_4_b.awk
Que_5.sh
redirct
redirect
test1
test2
test3
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ gcc Que_9_a.c
nitin@nitin-X555LF:~/git/Bash/Practicals$ ./a.out
I am child process
I am parent process
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ gcc -o pipe Q_9_b.c
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ./pipe
comb
inode
nitin
nitin2
nitin4
output_1.pdf
pipe
Q_8_a.c
Q_8_b.c
Q_9_b.c
Que_12_a.sh
Que_12_b.sh
Que_12_c.sh
Que_14_a.sh
Que_14_b.sh
Que_14_c.sh
Que_16_c.sh
Que_1_a.sh
Que_1_b.sh
Que_2_a.sh
Que_2_b.sh
Que_3_a.sh
Que_3_b.sh
Que_4_a.awk
Que_4_b.awk
Que_5.sh
redirct
redirect
test1
test2
test3
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_12_a.sh
Enter three numbers
3
4
5
The 5 is largest among all
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_12_b.sh
Enter directory name
nitin
The Number of files in nitin is 2
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_12_c.sh
1
2
3
4
5
6
7
8
9
10
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_13_a.sh nitin
nitin logged in
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_13_b.sh
Enter name,grade and salary of employee saperated by newline
nitin
A
10000
Do you want to enter more employee data
n
nitin@nitin-X555LF:~/git/Bash/Practicals$ cat employee
nitin,A,10000
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_14_a.sh
Enter file name
nitin2
File Found
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_14_b.sh
Enter file name : nitin2
nitin2 permissions
Write = No
Read = yes
Execute = No
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_14_c.sh 2 3 4 5 6 7
The sum of 2 3 4 5 6 7 are 27
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

QUE_15_A

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
Menu
1. Copy a File
2. Remove a file
3. Move a file
4. Quit
Enter ur Choice \c
2
Enter the File to be removed
cpy_employee
rm: remove regular file 'cpy_employee'? y
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ cat employee1
1 o o o o o 10000
2 o o o o o 20000
3 o o o o o 30000
4 o o o o o 1000
nitin@nitin-X555LF:~/git/Bash/Practicals$ awk -f Que_15_b.awk employee1
    BS      DA      HRA      GP
10000    2500    5000    17500
20000    5000   10000   35000
30000    7500   15000   52500
   1000    250     500    1750
Average Salary 61000 15250 30500 106750

nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_16_
Que_16_a.sh Que_16_b.sh Que_16_c.sh
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_16_a.sh
enter name of source file
employee
Enter name of destination file
employee1
Source file exist(copied...)
target file exists (do you want to continue)(y/n):
y
Files copied
nitin@nitin-X555LF:~/git/Bash/Practicals$ cat employee1
nitin,A,10000
nitin@nitin-X555LF:~/git/Bash/Practicals$
```

```
nitin@nitin-X555LF: ~/git/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_16_b.sh
The sum of first 10 odd numbers are: 210
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

The screenshot shows a terminal window titled "Untitled". The command `bash Que_16_c.sh` is run, followed by the input "Enter a number" and the number "1234". The output is "The reverse of number 1234 is 4321". The terminal window has a dark background with a red vertical bar on the right side.

```
nitin@nitin-X555LF:~/git/Bash/Practicals$ bash Que_16_c.sh
Enter a number
1234
The reverse of number 1234 is 4321
nitin@nitin-X555LF:~/git/Bash/Practicals$ |
```

In []:

In []:

In []:

In []:

In []: