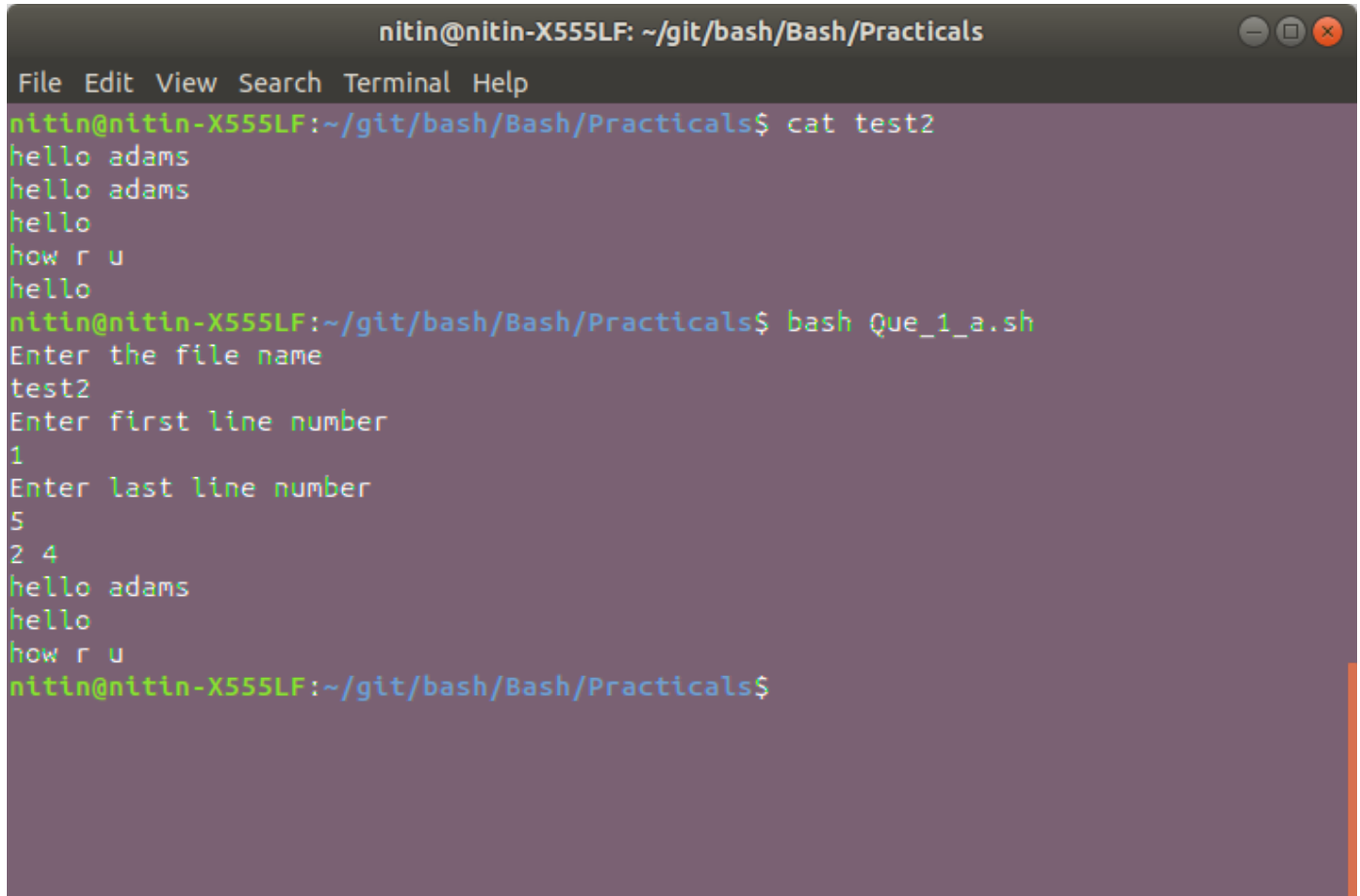


Write a shell script that accepts a file name, starting and ending line numbers as arguments and displays all the lines between the given line numbers.

A terminal window titled 'nitin@nitin-X555LF: ~/git/bash/Bash/Practicals' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following sequence of commands and output:

```
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$
```

Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.

```
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$ |
```

Write a shell script that displays a list of all the files in the current directory to which the user has read, write and execute permissions.

```
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$ |
```

Write a shell script that receives any number of file names as arguments checks if every argument supplied is a file or a directory and reports accordingly. Whenever the argument is a file, the number of lines on it is also reported.

```
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$
```

Write a shell script to list all of the directory files in a directory.

```
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 directory contents
nitin1 nitin2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

Write a shell script to find factorial of a given integer.

```
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$ |
```

Write an awk script to count the number of lines in a file that do not contain vowels.

```
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
bcd fgh
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$
```

Write an awk script to find the number of characters, words and lines in a file.

```
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$ |
```

Write a shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files.

```
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$ |
```

Write a shell script to accept three numbers and display the largest.

```
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$ |
```

Write a shell script to find the number of files in a directory.

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ls ./nitin
nitin1 nitin2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_12_b.sh
Enter directory name
nitin
The Number of files in nitin is 2
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

Write a shell script to display first ten positive numbers using until loop.

```
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$ |
```

Write a shell script to reverse the digits of a given number.

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ bash Que_16_c.sh
Enter a number
12345
The reverse of number 12345 is 54321
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

Write a C program to list for every file in a directory, its inode number and file name.

```
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$
```

Write a C program that demonstrates redirection of standard output to a file. Ex: ls > f1.

```
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
redirect
redirect
test1
test2
test3
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$
```

Write a C program that illustrates how to execute two commands concurrently with a command pipe. Ex:- ls -l | sort


```
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
redirect
redirect
test1
test2
test3
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ |
```

Write a shell script to check whether a file is existing or not.

```
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$ |
```

Write a shell script to find the mode of a file in a directory.

```
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$ |
```

Write a shell script which will accept different numbers and find their sum.

```
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$ |
```