

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.

The screenshot shows a terminal window titled "Untitled". The terminal session starts with the command `cat test2`, which displays the contents of a file named `test2`. The file contains several lines of text: "hello adams", "hello adams", "hello", "how r u", and "hello". The next command is `bash Que_1_a.sh`, followed by user input "Enter the file name" and "test2". Subsequent user inputs are "Enter first line number" (1), "Enter last line number" (5), and "2 4". The output shows the lines from the file between line 2 and line 4, which are "hello adams", "hello", and "how r u". The terminal prompt `nitin@nitin-X555LF:~/git/bash/Bash/Practicals$` is visible at the end.

```
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$ 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$ 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$ |
```

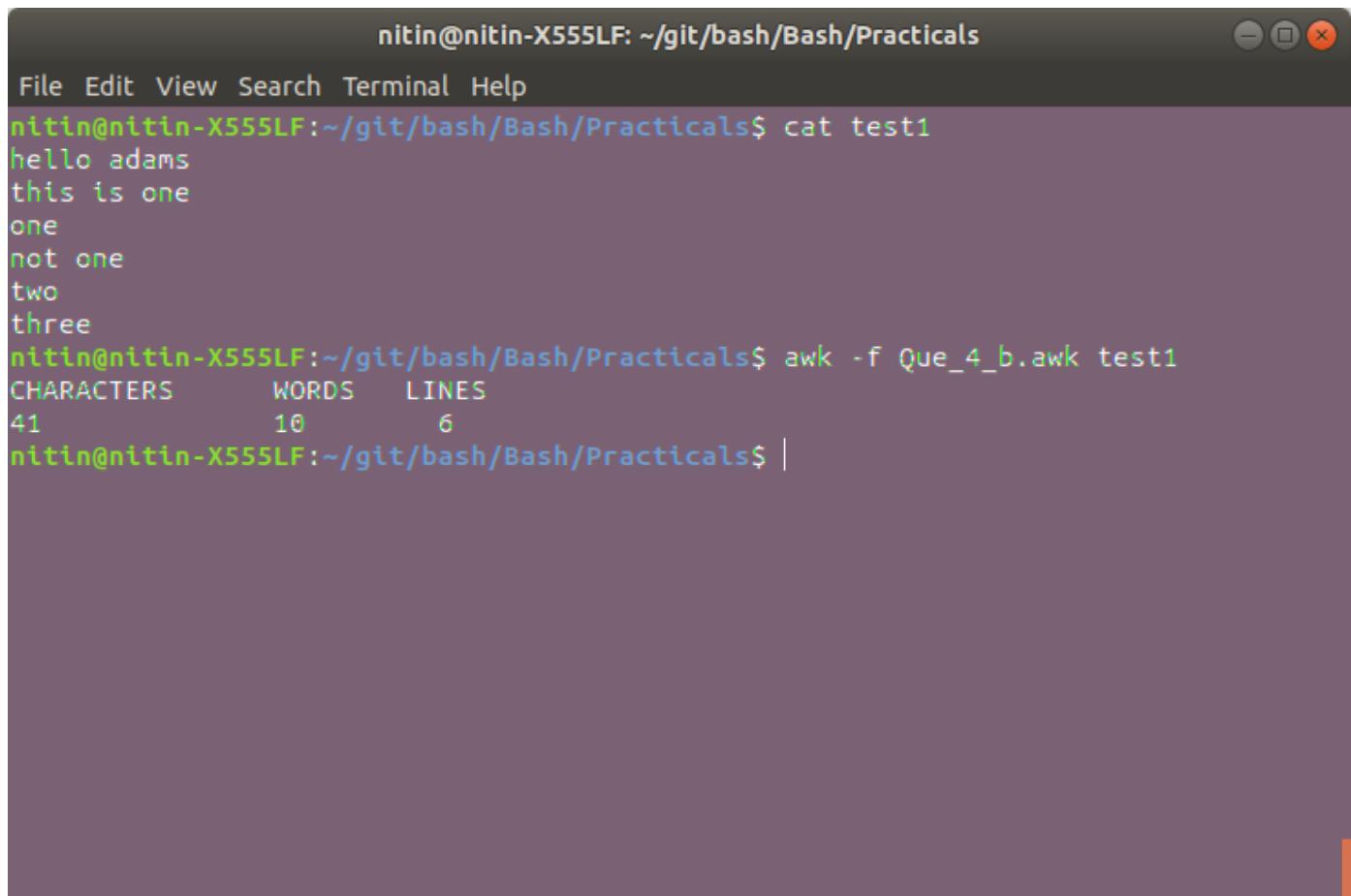
Write a shell script to find factorial of a given integer.

```
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
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$ |
```

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

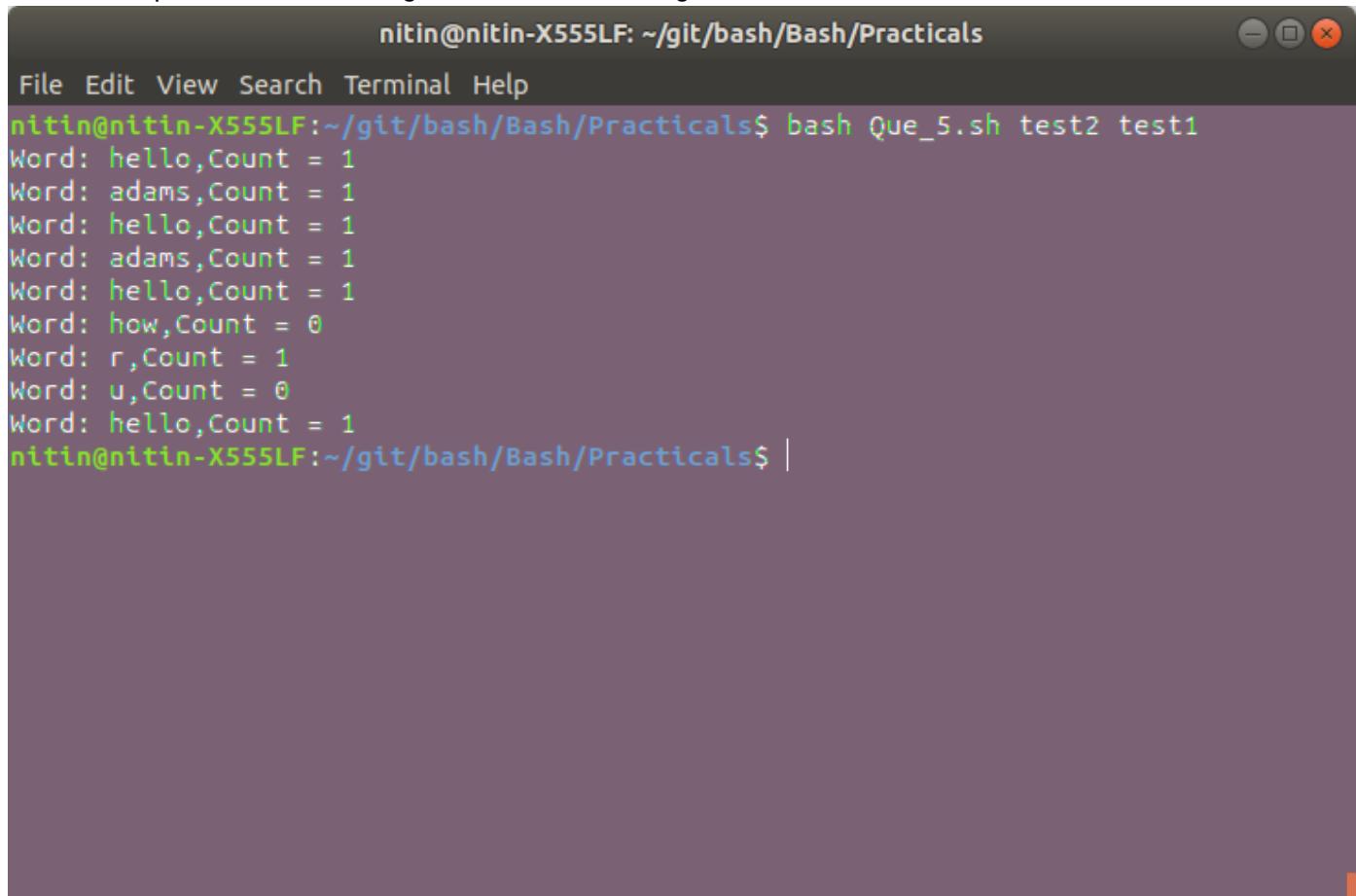


```

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$ 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$ 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$ 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.

The screenshot shows a terminal window titled "Untitled". The command entered is "bash Que_12_c.sh". The output consists of the numbers 1 through 10, each on a new line, indicating the script is printing the input file's content.

```
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.

The screenshot shows a terminal window titled "Untitled". The command entered is "bash Que_16_c.sh". The user is prompted to enter a number, which they type as "12345". The script then outputs the reversed number, "54321".

```
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals$ bash Que_16_c.sh
File Edit View Search Terminal Help
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ 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.

```

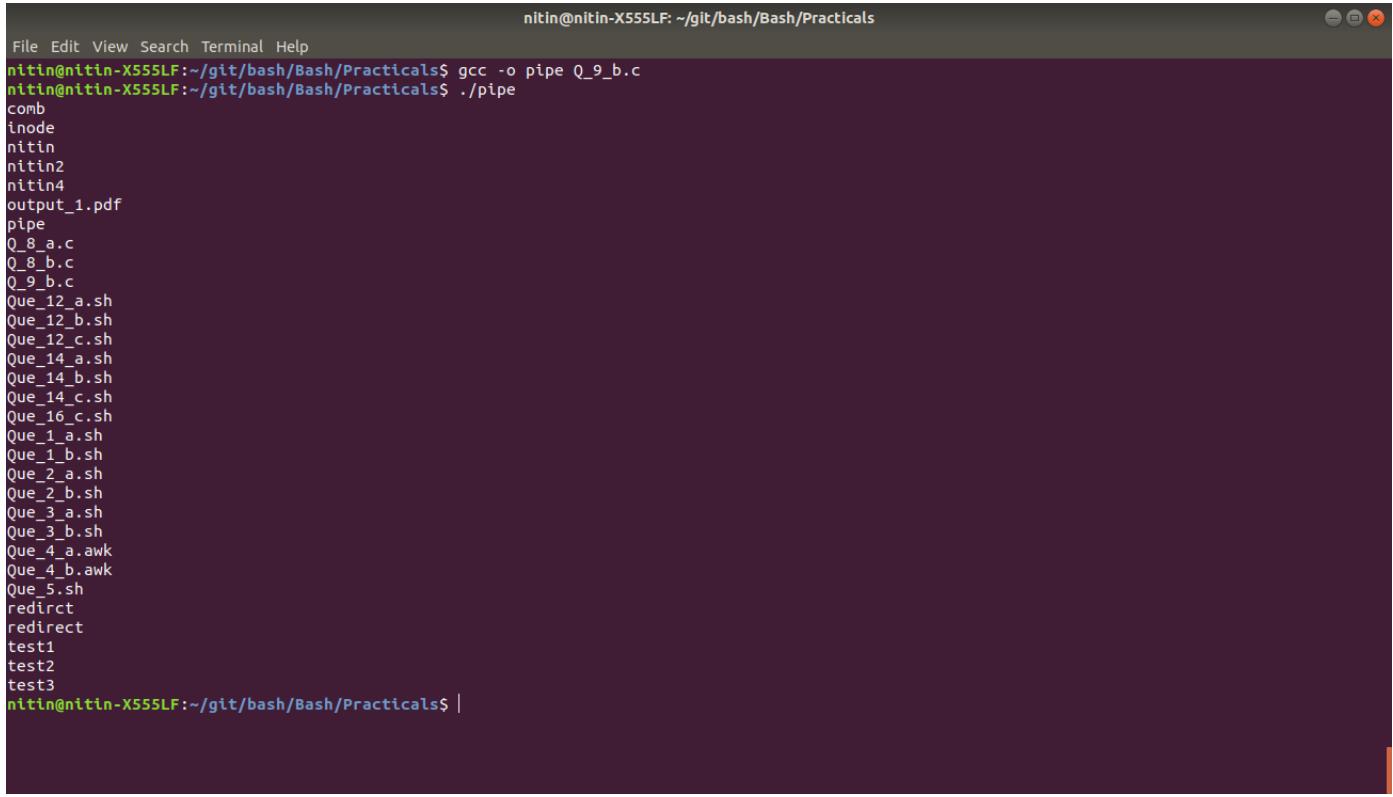
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals$ gcc -o inode Q_8_a.c
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals$ ./inode nitin2
9176944 nitin2
nitin@nitin-X555LF: ~/git/bash/Bash/Practicals$
```

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

```

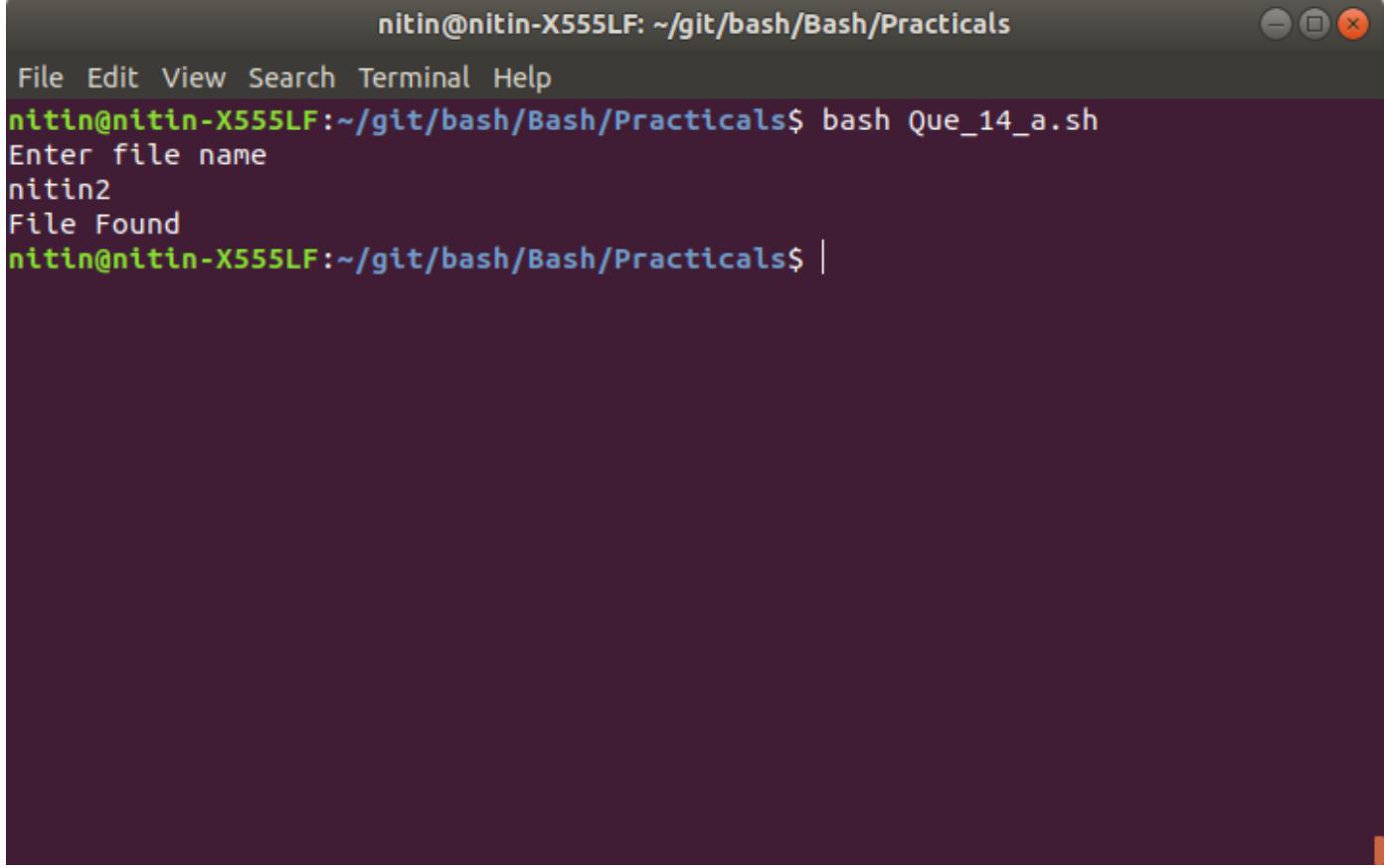
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ gcc -o redirect Q_8_b.c
nitin@nitin-X555LF:~/git/bash/Bash/Practicals$ ./redirect nitin4
comb
inode
nitin
nitin2
nitin4
output_1.pdf
Q_8_a.c
Q_8_b.c
Q_9_b.c
Que_12_a.sh
Que_12_b.sh
Que_12_c.sh
Que_14_a.sh
Que_14_b.sh
Que_14_c.sh
Que_16_c.sh
Que_1_a.sh
Que_1_b.sh
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$
```

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



```
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$ |
```

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$ 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$ 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$ |
```