QUESTION 1:

I need a script that simply takes 2 number from the user (both option, **if no args given, user will enter the numbers** ) and then perform all the basic arithmetic operations like addition, subtraction, multiplication, division and mod of first number to second Make sure to throw proper error message in case of division if the second argument is zero also check for valid arguments, your script should check the input before performing any of the above task.

QUESTION 2:

Sir Abrar has given me a task to check the assignment of each student, Sir has instructed me to look closely for cheating cases as well as I have to make sure that every student’s assignment should be done on his own laptop,so for this purpose I have to check each assignment file owner name and content of file. So I need a script for this purpose.  
Your script give me two options   
1. script\_name FILE\_NAME USER\_NAME  
 if student name mismatches with the owner of file then script should show CHEATING = 1 otherwise CHEATING = 0  
2. script\_name -c FILE\_NAME\_1 USER\_NAME\_2 FILE\_NAME\_2 USER\_NAME\_2  
 By using option **-c** your script compare the content of two files. and make sure user name must be not SAME.

After executing the script (without using **-c** option )the output should be

**OWNER:**uzair  
**GROUP:**uzair  
**PERMISSIONS:**rwxrwxrwx  
**FILENAME:**script.sh  
**CHEATING:**0

**$sctipt\_name -c script1.sh uzair file2 script2.sh  
File 1 Info:**

**OWNER:**uzair **OWNER:**usman  
**GROUP:**uzair **GROUP:**usman  
**PERMISSIONS:**rwxrwxrwx **PERMISSIONS:**rwxrwxrwx  
**FILENAME:**script1.sh **FILENAME:**script2.sh  
**CHEATING:**0 **CHEATING:**0

Difference between script1.sh and script2.sh  
SHOW CONTENT of BOTH files

QUESTION 3:

The Following question will be related to arrays in which you have to perform multiple tasks related to array manipulations

For this question you need to follow the steps:

* Declare an array named “**UNIX**” that contain the following elements 'Debian' 'Red hat' 'Ubuntu' 'Suse' 'Fedora'
* Now print the whole array without using any loop.
* Now display the length of the array
* Now print the length of element on index 2
* Now extract 2 elements starting from the position 3 from an array called **UNIX**.
* Now search for Ubuntu in an array elements, and replace the same with the word ‘SCO Unix’.
* Now add element ‘AIX’ and “HP-UX” in the existing array.
* Now remove the 3rd element from the array UNIX.
* Now make a new array of name LINUX and copy the content of UNIX array to LINUX array.
* Now make a new named BASH and concatenate both the LINUX and UNIX array in it.
* Now remove the arrays LINUX and UNIX

QUESTION 4:

Write a script in which you have to read a file in which each line contain one line into an array. Display the whole content of array and its length. Also display the length of the content at 3rd index.