Exercise 1: Arithmetic Exceptions

Write a method and then write a main to test it. The method should handle some Exceptions as the following:

- Start with a loop so that the user is repeatedly asked for the numerator and the denominator. For each set of data, the program prints out the result or an informative error message if there is a problem. (Division by zero or poor input data).
- The program continue looping, even if there is a Exception.
- Exit the loop when data entered for the numerator is "e" or "E".
  
  Don't print out an error message in this case.
- Don't ask for the denominator if the user just asked to quit.

Here is sample output from one run:
Enter the numerator: 12
Enter the denominator: 4
12 / 4 is 3
Enter the numerator: 12
Enter the denominator: 0
You can't divide 12 by 0
Enter the numerator: N
You entered bad data.
Please try again.
Enter the numerator: E
Good Bye
Exercise 2: Array Exceptions

Write a method and then write a main to test it. The method handles the Array Exceptions as the following:

- The Method asks the user to enter a size for an array of integers then ask the user to fill the array with values.
- Now you should have a full array, now ask the user to enter the index for a value and print it on the screen.
- The program should continue looping, even if there is a problem.
- Exit the loop when data entered for the Index is a character.

Here is a sample run:

Enter the Array Size: -3
Array size cannot be negative
Enter the Array Size: 3
Enter the value: 1
Enter the value: 2
Enter the value: 3
Enter the Index that you want to view: 4
Bad Index
Enter the Index that you want to view: 2
The Value in index 2 is 3
Enter the Index that you want to view: E
Good Bye