Aim:

Write a Java code for handling the exception.

Source Code:

q222/handleError.java

```
package q222;
import java.util.Random;
public class handleError {
   public static void main(String args[]) {
      int a = 0, b = 0, c = 0;
      Random r = new Random(100);
      for(int i=0;i<32;i++)
         {
            try
               {
                  b=r.nextInt();
                  c=r.nextInt();
                  a=12345/(b/c);
               }
            catch(ArithmeticException e)
                  System.out.println("Division by zero.");
                  a=0;
               }
            System.out.println("a: "+a);
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1	
User Output	
a: 12345	
Division by zero.	
a: 0	
a: -1028	
Division by zero.	
a: 0	
a: 12345	
a: -12345	
Division by zero.	
a: 0	
a: 3086	
a: 12345	

1: 12345 Nivision by zero. 1: 0 1: -12345 1: 12345 1: 12345 1: 12345 1: -280 1: -280 1: -12345 1: -280 1: -12345 1: -12345	
Division by zero. 1: 0 1: -12345 1: 12345 1: 342 1: 12345 1: -280 1: -280 1: -12345	a: -12345
:: 0 :: -12345 :: -12345 :: 12345 :: 12345 :: 12345 :: -280 :: -12345 :: -12345 :: -280 :: -12345	a: 12345
:: -12345 :: 12345 :: 12345 :: 12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -4115 :: -4115 :: 6172 ::	Division by zero.
:: 12345 :: 12345 :: 12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -4115 :: -4115 :: -4115 :: -4115 :: 6172 :: 6172 :: 6172 :: 6172 :: 0 :: 0 :: 0 :: 0 :: 0 :: 0 :: 0 ::	a: 0
:: 342 :: 12345 :: -12345 :: -12345 :: -12345 :: -34115 :: -4115 :: -4115 :: -4115 :: -4115 :: -4115 :: -4120 :: -4130 :	a: -12345
:: 12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -12345 :: -34115 :: -4115 :: -4115 :: -4115 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4172 :: -4173 :: -41	a: 12345
:: -12345 :: 12345 :: -12345 :: -12345 :: -12345 :: -4115 :: -4115 :: -4115 :: -4115 :: -4115 :: -4115 :: -4115 :: -4115 :: -412 :: -412 :: -412 :: -413 :: -413 :: -413 :: -4145 :: -4	a: 342
:: 12345 :: -12345 :: -12345 :: -12345 :: 0 :: -4115 :: 0 :: -4115 :: 6172 :: 6172 :: 6172 :: 6172 :: 6172 :: 12345 :: 0 :: 0 :: 0 :: 0 :: 0 :: 0 :: 0 ::	a: 12345
: -12345 bivision by zero. : 0 : -4115 bivision by zero. : 0 : -4115 : 6172 : 6172 bivision by zero. : 0 : 12345 : -280 : -12345 bivision by zero.	a: -12345
Division by zero.	a: 12345
1: 0 1: -4115 2: -4115 2: -4115 2: -4115 2: -4115 2: -4115 2: -6172 2: -617	a: -12345
1: -4115 2: -4115 2: -4115 2: -4115 2: 6172 2: 6172 2: ivision by zero. 2: 0 2: 0 2: 0 2: 0 2: 0 2: 12345 2: -280 2: -12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345 2: 12345	Division by zero.
Division by zero. 1: 0 1: -4115 1: 6172 1: in 6172 Division by zero. 1: 0 1: 12345 1: -280 1: -12345 Division by zero.	a: 0
1: 0 1: -4115 1: 6172 1: 6172 1: 0 1: 0 1: 0 1: 0 1: 0 1: 12345 1: -280 1: -12345 1: -12345 1: -12345	a: -4115
1: -4115 1: 6172 1: 6172 1: in 61	Division by zero.
1: 6172 2: 6172 2: vivision by zero. 2: 0 2: vivision by zero. 3: 0 2: vivision by zero. 3: 0 3: 12345 3: -280 3: -12345 2: vivision by zero.	a: 0
1: 6172 Division by zero. 1: 0 Division by zero. 1: 0 Division by zero. 1: 0 Division by zero. 1: 2345 1: -280 1: -12345 Division by zero.	a: -4115
Division by zero. 1: 0 Division by zero. 1: 0 Division by zero. 1: 12345 1: -280 1: -12345 Division by zero.	a: 6172
1: 0 Division by zero. 1: 0 Division by zero. 1: 0 1: 12345 1: -280 1: -12345 Division by zero.	a: 6172
Division by zero. 1: 0 2ivision by zero. 1: 0 1: 12345 1: -280 1: -12345 2ivision by zero.	Division by zero.
1: 0 Division by zero. 1: 12345 1: -280 1: -12345 Division by zero.	a: 0
Division by zero. 1: 0 1: 12345 1: -280 1: -12345 Division by zero.	Division by zero.
1: 0 1: 12345 1: -280 1: -12345 Division by zero.	a: 0
i: 12345 i: -280 i: -12345 division by zero.	Division by zero.
i: -280 i: -12345 Division by zero.	a: 0
i: -12345 Division by zero.	a: <u>12345</u>
division by zero.	a: -280
	a: -12345
: 0	Division by zero.
	a: 0