

Aim:

Write a Java program that handles multiple exceptions.

Source Code:**CatchMultipleException.java**

```
import java.lang.*;
import java.util.*;
import java.io.*;

class CatchMultipleException {
    public static void main(String args[]) {
        int num1, num2;
        int arr[] = new int[10];
        Scanner sc = new Scanner(System.in);
        try {
            /*Take values for numerator and denominator from the console */
            System.out.print("Enter a value for numerator: ");
            int n = sc.nextInt();
            System.out.print("Enter a value for denominator: ");
            int m = sc.nextInt();
            arr[10] = n/m;    /* Divide the numerator and denominator*/ ;
        }
        catch(ArrayIndexOutOfBoundsException e)
        {
            System.out.println("Exception caught: Index 10 out of bounds for length 1
0");
        }
        catch(ArithmeticException e)
        {
            System.out.println("Exception caught: / by zero");
        }
        /* catech ArithmeticException and ArrayIndexOutOfBoundsException here*/
    }
}
```

Execution Results - All test cases have succeeded!

| Test Case - 1 |
|----------------------------------|
| User Output |
| Enter a value for numerator: 15 |
| Enter a value for denominator: 0 |
| Exception caught: / by zero |

| Test Case - 2 |
|----------------------------------|
| User Output |
| Enter a value for numerator: 30 |
| Enter a value for denominator: 2 |

Exception caught: Index 10 out of bounds for length 10