6.Write a program in Java to demonstrate exception handling

```java
package javaFsd2;

import java.util.Scanner;

public class exceptionhandlingDemo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        exceptionhandlingDemo eh=new  exceptionhandlingDemo();
        eh.calculator();


    }

    private void calculator() {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter two number:");
        int a=sc.nextInt();
        int b=sc.nextInt();
        System.out.println("Addition: "+ (a+b));
        System.out.println("Subtraction :"+ (a-b));
        System.out.println("Multiplication:"+ (a*b));
        try {
            System.out.println("Division:"+a/b);
        }
        catch(ArithmeticException e)
        {
            System.out.println("please check your divisor");
            calculator();
        }

    }

}
```

Output

```
enter two number:
50
0
Addition: 50
Subtraction :50
Multiplication:0
please check your divisor
enter two number:
40
2
Addition: 42
Subtraction :38
Multiplication:80
Division:20
```