

```
import java.util.Scanner;

public class Division {

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

        Scanner s = new Scanner(System.in);

        int no1, no2;

        System.out.println("Enter no1: ");
        no1 = s.nextInt();
        System.out.println("Enter no2: ");
        no2 = s.nextInt();

        int result = 0;
        try{
            result = no1/no2;
            System.out.println("No1 / No2 = " + result);
        } catch(ArithmeticException e){
            System.out.println("Can't divide by zero!");
            System.out.println(e.getMessage());
            System.out.println(e.getCause());
            System.out.println(e);
            e.printStackTrace();
        }

        System.out.println("Here");
    }
}
```

```

public class Triangle {

    private int side1, side2, side3;

    public Triangle(int side1, int side2, int side3) throws
IllegalArgumentException{
        if(side1 > 0 && side2 > 0 && side3 > 0){
            this.side1 = side1;
            this.side2 = side2;
            this.side3 = side3;
        }
        else
            throw new IllegalArgumentException("All sides
must be positive!");
    }

    public boolean isValid(){
        if(side1+side2 > side3 && side1+side3 > side2 &&
side2+side3 > side1)
            return true;
        return false;
    }

    public String getTriType() throws Exception{
        if(isValid()){
            if(side1 == side2 && side1 == side3)
                return "Equilateral";
            else if(side1 == side2 || side1 == side3 ||
side2 == side3)
                return "Iseceles";
            else
                return "Scalene";
        }
        else
            throw new Exception("The sides don't form a
valid triangle.");
    }
}

```

```
import java.util.Scanner;

public class testTri {

    public static void main(String args[]){

        Scanner s = new Scanner(System.in);
        int s1, s2, s3;
        System.out.print("Enter side1, side2 and side3: ");
        s1 = s.nextInt();
        s2 = s.nextInt();
        s3 = s.nextInt();

        try{
            Triangle t = new Triangle(s1,s2,s3);

            try{
                System.out.println(t.getTriType());
            } catch(Exception e){
                System.out.println(e);
            }

            t.setSide1(5);
            t.setSide2(5);
            t.setSide3(5);

            try{
                System.out.println(t.getTriType());
            } catch(Exception e){}
            } catch(IllegalArgumentException e){
                System.out.println(e);
            }
            System.out.println("Bye!");
        }
    }
}
```