Q. 01. Write java code that takes two integers no1 and no2 and perform division. If division by zero then throw ArithmeticException Using try and catch statement.

Q. 02. Create a main method to test this class, and take the sides as input from the user.

Triangle
- side1: int   - side2: int   - side3: int
+ Triangle(int side1, int side2, int side3):   + isValidTriangle(): boolean   + getTriType(): String

Triangle

Attributes:

-   Side1, side2, side3 : different sides for the

triangle. Methods:

-   Triangle(int side1, int side2, int side3):

      ☐   You must check the sides and throw new (IllegalArgumentException) when any of the sides given is 0 or less.
-   isValidTriangle() ☐   decides whether the sides given form a valid triangle or not based on the theorem that states that " the sum of two side lengths of a triangle is always greater than the third side".

- getTriType(): String

  ▢ You must check the different sides and throw new Exception if the sides don't form a valid triangle, otherwise return the type of the triangle as follows:
  ▢ o **Equilateral** Triangle when you have three equal sides
  ▢ o **Isosceles** Triangle when you have two equal sides
  ▢ o **Scalene** Triangle when you have no equal sides