**Program 101c**

**(rational numbers)**

**Program Description**: Rational numbers are numbers that can be represented as a fraction p / q where p is an integer number and q is a positive integer (q != 0).

Design and implement a Java class RationalNumber for representing such numbers. Implement methods to add, subtract, mutliply and divide rational numbers. Implement a method for return the value of a rational number as a double value.

Mind, that zero has a unique interal represention in your implementation.

Statements Required: input,decision, class, output

Sample Output:

Please enter your first numerator 1

Please enter your first denominator 2

Please enter your second numerator 2

Please enter your second denominator 4

Addition = 1

Subtraction = 1

Multiplication = 0.25

Division = 1