

Fractions Calculator

Summary:

This program is for performing calculations on fractions, by taking the input in the form (a/b), then lets you choose from the following operations (Subtraction, Addition, Multiplication, Division, Comparisons). It also contains a function for **reducing** fractions such as $\frac{2}{6}$ is reduced to $\frac{1}{3}$. Also the program overloads the I/O operators to be able to input and output fractions naturally using >> and << operators.

The project is built using C++, Code::Blocks.

```
1- Input the two numbers
2- Subtraction
3- Addition
4- Multiplication
5- Division
6- Fraction1 > Fraction2
7- Fraction1 >= Fraction2
8- Fraction1 < Fraction2
9- Fraction1 <= Fraction2
10-Fraction1 == Fraction2
11- Quit
1
Enter the First number in this Form (a/b)
2/3
Enter the Second number in this Form (a/b)
3/2
1- Input the two numbers
2- Subtraction
3- Addition
4- Multiplication
5- Division
6- Fraction1 > Fraction2
7- Fraction1 >= Fraction2
8- Fraction1 < Fraction2
9- Fraction1 <= Fraction2
10-Fraction1 == Fraction2
11- Quit
5
Result after Division is 4/9
```