Class operation

- java.lang.Object

- operation

```
public class operation
extends java.lang.Object
```

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Constructor Summary

Constructors

Constructor and Description
operation(int x, int y) constructor to initialise the values passed to the class variables

Method Summary

Methods

Modifier and Type	Method and Description
void	**add**(int a, int b, int c, int d) performs addition of the two numbers
void	**display**() display method is to display the entered number in the form of a rational number
void	**div**(int a, int b, int c, int d) performs division of two rational numbers

int	**gcd**(int number1, int number2) Using the euclid's method check value for temp i.e divide the numerator and denominator and store it in temp until it is not equal to 0 run a loop..
void	**mul**(int a, int b, int c, int d) performs multiplication of two rational numbers
void	**reduce**(int number1, int number2, int c) Reduce() method reduces the rational numbers to least fractional values Using the euclid's method check value for temp i.e divide the numerator and denominator and store it in temp until it is not equal to 0 run a loop..
void	**sub**(int a, int b, int c, int d) performs subtraction of two rational numbers

- ### Methods inherited from class java.lang.Object

  clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

- ## Constructor Detail

  - ### operation

    ```
    public operation(int x,
             int y)
    ```

    constructor to initialise the values passed to the class variables

    Parameters:

    x - -numerator
    y - -denominator

Method Detail

display

```
public void display()
```

display method is to display the entered number in the form of a rational number

gcd

```
public int gcd(int number1,
      int number2)
```

Using the euclid's method check value for temp i.e divide the numerator and denominator and store it in temp until it is not equal to 0 run a loop..

Parameters:

`number1` - -numerator

`number2` - -denominator

Returns:

-returns the gcd of the two numbers

reduce

```
public void reduce(int number1,
          int number2,
          int c)
```

Reduce() method reduces the rational numbers to least fractional values Using the euclid's method check value for temp i.e divide the numerator and denominator and store it in temp until it is not equal to 0 run a loop.. display the reduced fractions

Parameters:

`number1` - -numerator
`number2` - -denominator
`c` - -it is the gcd of the two numbers(numerator and denominator)

- **add**

```
public void add(int a,
       int b,
       int c,
       int d)
```

performs addition of the two numbers

Parameters:

`a` - numerator of the first rational number
`b` - denominator of the first rational number
`c` - numerator of the second rational number
`d` - denominator of the second rational number

- **sub**

```
public void sub(int a,
       int b,
       int c,
       int d)
```

performs subtraction of two rational numbers

Parameters:

`a` - numerator of the first rational number

b - denominator of the first rational number
c - numerator of the second rational number
d - denominator of the second rational number

- **mul**

```
public void mul(int a,
       int b,
       int c,
       int d)
```

performs multiplication of two rational numbers

Parameters:

a - numerator of the first rational number
b - denominator of the first rational number
c - numerator of the second rational number
d - denominator of the second rational number

- **div**

```
public void div(int a,
       int b,
       int c,
       int d)
```

performs division of two rational numbers

Parameters:

a - numerator of the first rational number
b - denominator of the first rational number
c - numerator of the second rational number

d - denominator of the second rational number