package assignment1;

public class Frac {

private int num;

private int den;

public Frac() {

nume = 4;

den = 6;

}

public Frac(int num1, int num2) {

this.me = num1;

this.den = num2;

}

public void setNum1(int num1) {

this.nume = num1;

}

public void setNum2(int num2) {

this.den = num2;

}

public int getNum1() {

return nume;

}

public int getNum2() {

return den;

}

public void Display() {

System.out.print(nume + "/" + den);

}

public boolean equals(Frac other) {

int num1, num2;

int num3, num4;

int num5 = 1;

for (int i = 2; i <= Math.min(nume, den); i++) {

if (nume % i == 0 && den % i == 0) {

num5 = i;

}

}

num1 = nume / num5;

num2 = den / num5;

int otherGcf = 1;

for (int i = 2; i <= Math.min(other.nume, other.den); i++) {

if (other.nume % i == 0 && other.den % i == 0) {

otherGcf = i;

}

}

num3 = other.nume / otherGcf;

num4 = other.den / otherGcf;

return (num1 == num3 && num2 == num4);

}

package assignment1;

import java.util.Scanner;

public class FracRunner {

public static void main(String[] args) {

Scanner kb = new Scanner(System.in);

int nume, den;

System.out.print("Enter target Frac's Nume: ");

nume = kb.nextInt();

System.out.print("Enter target Frac's Den: ");

den = kb.nextInt();

Frac frac = new Frac(nume, den);

System.out.print("Enter new nume: ");

int otherNume = kb.nextInt();

System.out.print("Enter new den: ");

int otherDen = kb.nextInt();

Frac otherFrac = new Frac(otherNume, otherDen);

if (frac.equals(otherFrac)) {

frac.Display();

System.out.print(" is equal to ");

otherFrac.Display();

} else {

frac.Display();

System.out.print(" is not equal to ");

otherFrac.Display();

}

System.out.println();

}

}