PROGRAM:
```java
import java.util.*;
class Rational
{
int num,den;
public Rational()
{
}
public Rational(int x,int y)
{
num=x;
den=y;
}
public void sum(Rational r1,Rational r2)
{
num=r1.num*r2.den+r2.num*r1.den;
den=r1.den*r2.den;
}
public void show()
{
System.out.println(num+"/"+den);
}
}
class RationalMain
{
public static void main(String args[])
{
Scanner s=new Scanner(System.in);
int x1,y1;
System.out.println("Enter the numerator and denominator of the first rational number:");
x1=s.nextInt();
y1=s.nextInt();
Rational r1=new Rational(x1,y1);
int x2,y2;
System.out.println("Enter the numerator and denominator of the second rational number:");
x2=s.nextInt();
y2=s.nextInt();
Rational r2=new Rational(x2,y2);
Rational r3=new Rational();
r3.sum(r1,r2);
System.out.println("Sum of rational numbers:");
r3.show();
}
}
```

OUTPUT:
D:\Aniket JAVA>javac RationalMain.java
D:\Aniket JAVA>java RationalMain

Enter the numerator and denominator of the first rational number:
2 7
Enter the numerator and denominator of the second rational number:
3 8
Sum of rational numbers:
37/56