```
Lóp: 217JAVA101
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* and open the template in the editor.
*/
package phansol;
import java.util.Scanner;
/**
* @author Phan Ngoc Hung
*/
public class PhanSo1 {
 int tu; int mau;
  PhanSo1(){ tu =0; mau = 1;}
  PhanSo1(PhanSo1 p){
     this.tu=p.tu;
    this.mau=p.mau;
       }
  PhanSo1 Nhapgt(){
    Scanner sc = new Scanner(System.in);
    System.out.print(" nhap tu so = ");
      tu = sc.nextInt();
    System.out.print(" nhap mau so = ");
```

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mau = sc.nextInt();

```
return this;
}
static void XuatPS(PhanSo1 ps){
    if(ps.mau==1)
       System.out.print(ps.tu);
    else
       System.out.println(+ps.tu+"/"+ps.mau);
  }
static int USCLN(int a, int b){
    if(a<0)
       a=-a;
    if(b<0)
       b=-b;
    while(a!=b)
       if(a>b)
         a=a-b;
       else
         b=b-a;
    return a+b;
}
public PhanSo1 Simplify(PhanSo1 ps){
  int usc = USCLN(ps.tu,ps.mau);
  ps.tu=ps.tu/usc; ps.mau=ps.mau/usc;
   return ps;
}
public PhanSo1 Congps(PhanSo1 p1, PhanSo1 p2){
  PhanSo1 p3 = new PhanSo1();
```

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p3.tu=(p1.tu*p2.mau)+(p1.mau*p2.tu);
  p3.mau=p1.mau*p2.mau;
  p3=p3.Simplify(p3);
  return p3;
  }
public PhanSo1 Trups(PhanSo1 p1, PhanSo1 p2){
  PhanSo1 p3 = new PhanSo1();
  p3.tu=(p1.tu*p2.mau)-(p1.mau*p2.tu);
  p3.mau=p1.mau*p2.mau;
  p3=p3.Simplify(p3);
  return p3;
 }
public PhanSo1 Nhanps(PhanSo1 p1, PhanSo1 p2){
  PhanSo1 p3 = new PhanSo1();
  p3.tu=p1.tu*p2.tu;
  p3.mau=p1.mau*p2.mau;
  p3=p3.Simplify(p3);
  return p3;
public PhanSo1 Chiaps(PhanSo1 p1, PhanSo1 p2){
  PhanSo1 p3 = new PhanSo1();
  p3.tu=p1.tu*p2.mau;
  p3.mau=p1.mau*p2.tu;
  p3=p3.Simplify(p3);
  return p3;
  public static void main(String[] args) {
 PhanSo1 ps1= new PhanSo1();
PhanSo1 ps2= new PhanSo1();
```

```
PhanSo1 ps3= new PhanSo1();
System.out.println("Nhap phan so thu nhat");
ps1.Nhapgt();
System.out.print("Nhap phan so thu 2");
ps2.Nhapgt();
System.out.print(" Phan so thu 1 = ");
PhanSo1.XuatPS(ps1);
System.out.print(" Phan so thu 2 = ");
PhanSo1.XuatPS(ps2);
System.out.print(" Tong 2 phan so = ");
ps3=ps3.Congps(ps1, ps2);
ps3.XuatPS(ps3);
System.out.print(" Tru 2 phan so = ");
ps3= ps3.Trups(ps1, ps2);
ps3.XuatPS(ps3);
System.out.print(" Tich 2 phan so = ");
ps3= ps3.Nhanps(ps1, ps2);
ps3.XuatPS(ps3);
System.out.print(" Thuong 2 phan so = ");
ps3= ps3.Chiaps(ps1, ps2);
ps3.XuatPS(ps3);
  }
```

```
run:
Nhap phan so thu nhat
  nhap tu so = 1
  nhap mau so = 2
Nhap phan so thu 2 nhap tu so = 3
  nhap mau so = 4
Phan so thu 1 = 1/2
Phan so thu 2 = 3/4
Tong 2 phan so = 2/2
Tru 2 phan so = 0/2
Tich 2 phan so = 1/4
Thuong 2 phan so = 1BUILD SUCCESSFUL (total time: 5 seconds)
}
Kết quả
```