// 1.1) Write a Java program to find the discriminant value D and find out the roots of the quadratic equation of the form ax2+bx+c=0.

import java.io.\*;

importjava.lang.\*;

importjava.util.\*;

class Quadratic

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

doublea,b,c;

System.out.println("Enter a,b,c values");

a=sc.nextDouble();

b=sc.nextDouble();

c=sc.nextDouble();

double d=(b\*b)-(4\*a\*c);

if(d==0)

{

System.out.println("Equal roots");

double r=(-b/(2\*a));

System.out.println(r);

}

else if(d>0)

{

System.out.println("Distinct roots");

double r1,r2;

r1=(-b+Math.sqrt(d))/(2\*a);

r2=(-b-Math.sqrt(d))/(2\*a);

System.out.println(r1);

System.out.println(r2);

}

else

{

System.out.println("Imaginary roots");

}

}

}

OUTPUT:

