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//Java Program to find the roots of the given quadratic equation by the user.

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import java.util.*;
class QuadraticEquation{
public static void main(String args∏){
Scanner in=new Scanner(System.in);
int a,b,c,det;
System.out.println("Enter the values of a,b and c:");
a=in.nextInt();
b=in.nextInt();
c=in.nextInt();
det=b*b-4*a*c;
double r1,r2;
if(det>0)
r1=(-b+Math.sqrt(det))/(2*a);
r2=(-b-Math.sqrt(det))/(2*a);
System.out.println("Root 1:"+r1+"\nRoot 2:"+r2);
else if(det==0){
r1=-b/(2*a);
System.out.println("Both the roots are same and equal to:"+r1);
else if(det < 0) {
System.out.println("Real roots do not exist.");
}
else
System.out.println("Invalid input!");
C:\Users\Sanny\Desktop\Java Programs>javac QuadraticEquation.java
C:\Users\Sanny\Desktop\Java Programs>java QuadraticEquation
Enter the values of a,b and c:
Root 1:-0.5
Root 2:-1.0
```