

```

import java.util.*;
public class Main {

    public static void main(String[] args) {

        double root1, root2;
        Scanner in = new Scanner(System.in);

        System.out.println("Enter value for a : ");
        double a = in.nextFloat();
        System.out.println("Enter value for b : ");
        double b = in.nextFloat();
        System.out.println("Enter value for c : ");
        double c = in.nextFloat();

        double determinant = b * b - 4 * a * c;

        if(determinant > 0) {
            root1 = (-b + Math.sqrt(determinant)) / (2 * a);
            root2 = (-b - Math.sqrt(determinant)) / (2 * a);

            System.out.format("root1 = %.2f and root2 = %.2f", root1 , root2);
        }
        else if(determinant == 0) {
            root1 = root2 = -b / (2 * a);

            System.out.format("root1 = root2 = %.2f;", root1);
        }
        else {
            double realPart = -b / (2 * a);
            double imaginaryPart = Math.sqrt(-determinant) / (2 * a);

            System.out.format("root1 = %.2f+%.2fi and root2 = %.2f-%.2fi", realPart,
            imaginaryPart, realPart, imaginaryPart);
            System.out.println("----This quadratic equation has no real roots----");
        }
    }
}

```

