

Quadratic Equations

```
import java.util.Scanner;
import java.lang.Math;
public class Quad {
    public static void main (String args[])
    {
        System.out.println ("Enter values of a, b and c
                               of a quadratic equation:");
        Scanner sc = new Scanner (System.in);

        int a, b and c;
        a = sc.nextInt();
        b = sc.nextInt();
        c = sc.nextInt();
        double d, x1, x2;
        d = b*b - 4*a*c;
        if (d < 0)
        {
            System.out.println ("Equation does not
                                have any real roots");
        }
        else {
            x1 = (-b + Math.sqrt(d)) / (2*a);
            x2 = (-b - Math.sqrt(d)) / (2*a);
            System.out.println ("Roots are : \n x1 =
                                " + x1 + "\n x2 =
                                " + x2);
        }
    }
}
```