Develop a Java program that prints all real solutions to the quadratic equation ax2+bx+c = 0. Read in a, b, c and use the quadratic formula. If the discriminate b2-4ac is negative, display a message stating that there are no real solutions.

Source Code

```
import java.util.Scanner;
import java.lang.Math;
class QuadraticEq {
	public static void main(String args[])
	{
		int a,b,c;
		double d,r1,r2;
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter a,b and c in quadratic equation");
		a=sc.nextInt();
		b=sc.nextInt();
		c=sc.nextInt();
		d=Math.pow(b,2)-4*a*c;
		if(d==0)
		{
			r1=b/(2*a);
			r2=b/(2*a);
			System.out.println("Roots are equal");
			System.out.println("Roots are: "+r1+" and "+r2);
```

```
            }
            else if(d>0)
            {
                r1=(-b+Math.sqrt(d))/(2*a);
                r2=(-b-Math.sqrt(d))/(2*a);
                System.out.println("Roots are distinct and unequal");
                System.out.println("Roots are: "+r1+"and "+r2);
            }
            else
            {
                System.out.println("Imaginary roots");
            }
        }
}
```

Output Screenshot