```java
import java.util.Scanner;

public class Quadratic
{
        public static void main(String args[])
        {
                double a,b,c,D;
                double r1,r2;

                Scanner in = new Scanner(System.in);

                System.out.println("Enter  a,b and c of the quadratic equation
a(x)^2+b(x)+c=0 : ");
                a = in.nextDouble();
                b = in.nextDouble();
                c = in.nextDouble();
                System.out.println();
                System.out.println("Input Equation : "+a+"(x)^2 + "+b+"(x) + "+c+" = 0");
                System.out.println();

                D = (b*b)-(4*a*c);

                if(D>0)
                {
                        System.out.println("Roots are real and unequal since Discriminant =
"+D);

                        r1 = (-b + Math.sqrt(D))/(2*a);
                        r2 = (-b - Math.sqrt(D))/(2*a);
                        System.out.println();
                        System.out.println("Roots of the quadratic equation are "+r1+" and
"+r2);
                }
                else if(D==0)
                {
                        System.out.println("Roots are real and equal since Discriminant =
"+D);

                        r1 = r2 = (-b)/(2*a);
                        System.out.println();
                        System.out.println("Roots of the quadratic equation are "+r1+" and
"+r2);
                }
                else
                {
                        System.out.println();
                        System.out.println("Roots are unreal since Discriminant = "+D);
                }
```

```
        }
}
```