```
import java.util.Scanner;
class quad
{
   public static void main (String args[])
   {
    System.out.println("Enter the coefficients
        a, b & c of quadratic equation
        ax2+bx+c=0 and where a is not
        0");
    Scanner sc = new Scanner (System.in);
    double a = sc.nextInt();
    if (a==0)
     {
       System.out.println(" a can't be zero
     }
    else
     {
      double b=sc.next.Int();
      double c=sc.next.Int();
      double z=b*b-4*a*c;
      Equation eq = new Equation();
      if (z<0)
      {
       System.out.println("There are
          no real solutions");
      }
      else if (z==0)
      {
       System.out.println("The solution
          are real and equal");
```

```
            eq.check(a,b,c);
            eq.display();
        }
        else
        {
            System.out.println("The solutions are
                    real and distinct");
            eq.check(a,b,c);
            eq.display();
        }
    }
}
class Equation
{
    double a;
    double b;
    double c;
    double r1;
    double r2;
    void check(double a, double b, double c)
    {
        this.a = a;
        this.b = b;
        this.c = c;
        double z = Math.pow(b*b-4*a*c, 0.5);
        r1 = (-b-z)/(2*a);
        r2 = (-b+z)/(2*a);
    }
```

```
void display()
{
    System.out.println(r1);
    System.out.println(r2);
}
}
```