```
import java.util.Scanner;
class quadraticequation
{
  public static void main(String args[])
  {
    Scanner sc=new Scanner(System.in);
    double a,b,c,r1,r2,d;
    System.out.println("Enter the value of a,b,c");
    a=sc.nextDouble();
    b=sc.nextDouble();
    c=sc.nextDouble();
    d=(b*b)-(4*a*c);
    if(d<0)
    System.out.println("No real roots for the
                        given quadratic equation");
    else if(d>=0)
    {
      r1=(-b+(Math.sqrt(d)))/(2*a);
      r2=(-b-(Math.sqrt(d)))/(2*a);
      if(d==0)
      {
        System.out.println("Roots are real and
                            equal");
        System.out.printf("The roots are:%.2f
                           and %.2f",r1,r2);
      }
      else
      {
        System.out.println("Roots are real and
                            unequal");
```

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```
System.out.printf("The roots are: %.2f
                    and %.2f", r1, r2);
    }
  }
}
```