```java
import java.util.Scanner;
class equation
{
    public static void main(String args[]){
        double r1,r2;
        Scanner num = new Scanner(System.in);
        System.out.println("Let the quadratic equation be of the form ax^2+bx+c=0\n");
        System.out.println("Enter value of a");
        double a = num.nextDouble();
        System.out.println("Enter value of b");
        double b = num.nextDouble();
        System.out.println("Enter value of c");
        double c = num.nextDouble();
        double det = ((b*b)-(4*a*c));
        double sqrt = Math.sqrt(det);
        if(det>0){
            r1 = (-b + sqrt)/(2*a);
            r2 = (-b - sqrt)/(2*a);
            String s1 = String.format("%.2f", r1);
            String s2 = String.format("%.2f", r2);
            System.out.println("Roots are real and distinct");
            System.out.println("Roots are" +" "+ s1 +" "+ "and" +" "+ s2);
        }
        else if(det == 0){
            System.out.println("Roots are Real and equal");
            r1 = (-b + sqrt)/(2*a);
            System.out.println("Roots is");
            String s3 = String.format("%.2f", r1);
            System.out.println(s3);
        }
        else{
            System.out.println("No real roots\n");
        }
    }
}
```

```
(base) jathinsmacbookpro@Jathins-MacBook-Pro java % java equation
Let the quadratic equation be of the form ax^2+bx+c=0

Enter value of a
1
Enter value of b
2
Enter value of c
3
No real roots

(base) jathinsmacbookpro@Jathins-MacBook-Pro java % java equation
Let the quadratic equation be of the form ax^2+bx+c=0

Enter value of a
1
Enter value of b
-2
Enter value of c
1
Roots are Real and equal
Roots is
1.00
(base) jathinsmacbookpro@Jathins-MacBook-Pro java % java equation
Let the quadratic equation be of the form ax^2+bx+c=0

Enter value of a
1
Enter value of b
4
Enter value of c
2
Roots are real and distinct
Roots are -0.59 and -3.41
(base) jathinsmacbookpro@Jathins-MacBook-Pro java %
```