```java
//* Quadratic Equation *//
import java.util.Scanner;
import java.lang.*;
import java.io.*;
class quad
{
        public static void main (String args[])
        {
                double x1,x2, a, b, c, d, d1;
                Scanner sc= new Scanner (System.in);
                System.out.println ("Enter the value of a");
                a= sc.nextDouble ();
                System.out.println ("Enter the value of b");
                b= sc.nextDouble ()
                System.out.println ("Enter the value of c");
                c= sc.nextDouble ()
                d1= (b*b)-4*a*c;
                d= Math.sqrt ((b*b)-4*a*c);
                if (d1<0){
                        System.out.println (" No real solutions"); }
                if (d1==0)
                {
                        x1= (-b+d)/(2*a);
                        System.out.println (" Roots are equal:"+x1);
                }
                if (d1>0)
                {
                        System.out.println ("Roots are distinct");
                        x1= (-b+d)/(2*a);
```

```java
r2 = (-b-d)/(2*a);
System.out.println("Root 1: "+r1);
System.out.println("Root 2: "+r2);
}
}
}
```