

```
8
9  import java.util.*;
10 public class Main{
11     public static void main(String args[])
12     {
13         double a,b,c,D,r1,r2,real,imag;
14
15         Scanner in = new Scanner(System.in);
16         System.out.println("Enter the coefficients ");
17         a = in.nextDouble();
18         b = in.nextDouble();
19         c = in.nextDouble();
20         D = (b*b)-(4*a*c);
21         if(D>0)
22         {
23             r1 = (-b + Math.sqrt(D))/(2*a);
24             r2 = (-b - Math.sqrt(D))/(2*a);
25             System.out.println("Real roots are :"+r1+" "+r2);
26         }
27         else if(D==0)
28         {
29             r1 = r2 = -b/(2*a);
```

I

input

Run

Debug

Stop

Share

Save

{ } Beautify

↓

Language Java

v

Main.java

```
19 c = in.nextDouble();
20 D = (b*b)-(4*a*c);
21 if(D>0)
22 {
23 r1 = (-b + Math.sqrt(D))/(2*a);
24 r2 = (-b - Math.sqrt(D))/(2*a);
25 System.out.println("Real roots are :"+r1+" "+r2);
26 }
27 else if(D==0)
28 {
29 r1 = r2 = -b/(2*a);
30 System.out.println("Roots are equal"+r1);
31 }
32 else
33 {
34 real=-b/(2*a);
35 imag=Math.sqrt(-D)/(2*a);
36 System.out.println("Complex roots are :"+real+"+"+"i"+imag+" "+real+"- "+"i"+imag);
37 }
38 }
39 }
40
```

input


```
are. < input
Enter the coefficients
3
2
-1
Real roots are :0.3333333333333333 -1.0

< ...Program finished with exit code 0
Press ENTER to exit console.□
```

```

import java.util.*;
public class Main {
    public static void main(String args[])
    {
        double a, b, c, D, r1, r2, real, imag;

        Scanner in = new Scanner(System.in);
        System.out.println("Enter the coefficients");
        a = in.nextDouble();
        b = in.nextDouble();
        c = in.nextDouble();
        D = (b*b) - (4*a*c);
        if (D > 0)
        {
            r1 = (-b + Math.sqrt(D)) / (2*a);
            r2 = (-b - Math.sqrt(D)) / (2*a);
            System.out.println("Real roots are : " + r1 + " " + r2);
        }
        else if (D == 0)
        {
            r1 = r2 = -b / (2*a);
            System.out.println("Roots are equal " + r1);
        }
        else
        {
            real = -b / (2*a);
            imag = Math.sqrt(-D) / (2*a);
            System.out.println("Complex roots are : " + real + " + "
            + "i" + " " + imag + " " + real + " - " + "i" + " " + imag);
        }
    }
}

```