

```
1  import java.util.*;
2  public class Main
3  {
4      public static void main(String args[])
5      {
6          Scanner sc= new Scanner(System.in);
7          System.out.println("Enter value of a");
8          double a=sc.nextDouble();
9          System.out.println("Enter value of b");
10         double b= sc.nextDouble();
11         System.out.println("Enter value of c");
12         double c= sc.nextDouble();
13         double d=(Math.pow(b,2))-(4*a*c);
14         double r1,r2;
15         if(d==0)
16         {
17             r1 = -b/(2*a);
18             r2 = r1;
19             System.out.println("Root one =" +r1);
20             System.out.println("Root two =" +r2);
21         }
22         else if (d>0)
23         {
24             r1=(-b+Math.sqrt(d))/(2*a);
25             r2=(-b-Math.sqrt(d))/(2*a);
26             System.out.println("Root one =" +r1);
27             System.out.println("Root two =" +r2);
28         }
29         else
30         {
31             System.out.println("The Roots are Imaginary");
32         }
33     }
34 }
35
```



Enter value of a

1

Enter value of b

-2

Enter value of c

1

Root one =1.0

Root two =1.0

...Program finished with exit code 0

Press ENTER to exit console.



Enter value of a

4

Enter value of b

4

Enter value of c

1

Root one = -0.5

Root two = -0.5

...Program finished with exit code 0

Press ENTER to exit console.



Enter value of a

1

Enter value of b

1

Enter value of c

1

The Roots are Imaginary

...Program finished with exit code 0

Press ENTER to exit console.