

```
1  import java.util.*;
2  import java.lang.*;
3  public class quadratic{
4  public static void main(String[] args){
5  double a,b,c,r1=0,r2=0;
6  System.out.println("Enter coefficients a,b and c of quadratic equation:");
7  Scanner in = new Scanner(System.in);
8  a=in.nextFloat();
9  b=in.nextFloat();
10 c=in.nextFloat();
11 double d = (b*b)-(4*a*c);
12 if(d == 0)
13 {
14 System.out.println("Two equal real roots");
15 r1 = -b/2*a;
16 r2 = r1;
17 }
18 else if(d > 0)
19 {
20 System.out.println("Two distinct real roots");
21 r1 = -b + Math.sqrt(d)/2*a;
22 r2 = -b - Math.sqrt(d)/2*a;
23 }
24 else
25 {
26 System.out.print("No real roots");
27 System.exit(0);
28 }
29 System.out.println("Roots of quadratic equation are r1 = "+r1+" and r2 = "+r2);
30 }
31 }
32
```


JDK 11.0.4



Interactive



Execute



Result

compiled and executed in 33.53 sec(s)

Enter coefficients a,b and c of quadratic equation:**3****4****1****Two distinct real roots****Roots of quadratic equation are r1 = -1.0 and r2 = -7.0**