```
1 //Day 8 coding Statement: Write a program to find roots of a quadratic equation
 2 //Description
 3 //Get the values of a, b and c (coefficients of quadratic equation) as input from the
  user and calculate the roots and print as the output.
 4
 5 import java.util.Scanner;
 6 import java.lang.Math;
 7 public class day8 {
       public static void main(String[] args) {
 9
            Scanner sc = new Scanner(System.in);
System.out.print("Enter the value of a, b and c: ");
10
11
12
            float a = sc.nextFloat();
13
            float b = sc.nextFloat();
14
            float c = sc.nextFloat();
15
            float discriminant = (float) Math.sqrt (b*b - 4*a*c);
16
17
            float x1,x2;
18
            if(discriminant>=0){
19
20
                 x1 = (-b + discriminant) / 2 * a;
                 x2 = (-b - discriminant) / 2 * a;
21
22
                 if (x1!=x2){
                     System.out.println("Roots are distinct");
23
                     System.out.println("Root 1 = " + x1);
System.out.println("Root 2 = " + x2);
24
25
26
                 }
27
                 else{
                     System.out.println("Roots are equal");
System.out.println("Root 1 = Root 2 = " + x1);
28
29
30
                 }
31
            }
32
            else{
33
                 System.out.println("Roots are not real");
34
35
            sc.close();
36
       }
37 }
38
```

localhost:4649/?mode=clike 1/1