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

```
Main java
 17
                  double r1 = -b/(2*a);
 18
                        .out.println("The roots are real and equal.");
 19
                        .out.println(r1);
 20
             else if(d>0)
 21
 22-
                  double r1 = (-b + Math.sqrt(d))/(2*a);
 23
                  double r2 = (-b-Math.sqrt(d))/(2*a);
 24
                        .out.println("The roots are real and distinct.");
 25
                  System.out.println (r1+" and "+r2);
 26
 27
             else
 28
 29 -
                 System.out.println("There are no real roots.");
 31
 32
 33
     1
 34
```

```
v / 4
Enter a, b, c of the quadratic equation:
4 -4 1
D = 0.0
The roots are real and equal.
0.5
 .. Program finished with exit code 0
Press ENTER to exit console.
```

input

```
Enter a, b, c of the quadratic equation:

2 5 5
D = -15.0
There are no real roots.

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

```
Enter a, b, c of the quadratic equation:
2 1 -1
D = 9.0
The roots are real and distinct.
0.5 and -1.0
... Program finished with exit code O
Press ENTER to exit console.
```