**CODE:**

import java.util.Scanner;

class equation

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

double a,b,c,r1,r2,d;

System.out.println("Enter the values of a,b,c");

a=sc.nextDouble();

b=sc.nextDouble();

c=sc.nextDouble();

d=(b\*b)-(4\*a\*c);

if(d<0)

System.out.println("No real roots for the given quadratic equation");

else if(d>=0)

{

r1=(-b+(Math.sqrt(d)))/(2\*a);

r2=(-b-(Math.sqrt(d)))/(2\*a);

if(d==0)

{

System.out.println("Roots are real and equal");

System.out.printf("The roots are: %.2f and %.2f",r1,r2);

}

else

{

System.out.println("Roots are real and unequal");

System.out.printf("The roots are: %.2f and %.2f",r1,r2);

}

}

}

}

**OUTPUT:**

