

```

import java.util.Scanner;

import javax.lang.model.util.ElementScanner14;
public class Lab3
{
    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        System.out.print("Input a :");
        double a = input.nextDouble();
        System.out.print("Input b :");
        double b = input.nextDouble();
        System.out.print("Input c :");
        double c = input.nextDouble();
        double result = b*b-4.0*a*c;
        if(result > 0.0)
        {
            double r1 = (-b+Math.pow(result,0.5))/(2.0*a);
            double r2 = (-b+Math.pow(result,0.5))/(2.0*a);
            System.out.println("The roots are" +r1+"and"+r2);

        }
        else if(result==0.0)
        {
            double r1 = -b/(2.0*a);
            System.out.println("The root is"+r1);

        }
        else
        {
            System.out.println("The equation has no real roots.");
        }
    }
}

```

OUTPUT :

```

vishal@Vishals-MacBook-Air desktop % java Lab3.java
Input a :1
Input b :2
Input c :3
The equation has no real roots.

```

```

Input a :1
Input b :8
Input c :2
The roots are-0.25834261322605867and-0.25834261322605867
vishal@Vishals-MacBook-Air desktop % 

```