

```
import java.util.Scanner;
public class Quadratic
{
    public static void main(String[] args)
    {
        double a,b,c,root1,root2;
        double d;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of b:");
        b=sc.nextDouble();
        System.out.println("Enter the value of a:");
        a=sc.nextDouble();
        System.out.println("Enter the value of c:");
        c=sc.nextDouble();
        d=(b*b)-(4*a*c);
        if(d>0)
        {
            root1=(-b+Math.sqrt((b*b)-(4*a*c)))/(2*a);
            root2=(-b-Math.sqrt((b*b)-(4*a*c)))/(2*a);
            System.out.println("First root is:"+root1);
            System.out.println("Second root is:"+root2);
        }
        else if(d==0)
        {
            root1= -b/(2*a);
            System.out.println("Both roots are same and are equal to:"+root1);}
        else if(d<0)
        {
            System.out.println("Real roots dont exist");
        }
    }
}
```



```
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if(d>0)
{
root1=(-b+Math.sqrt((b*b)-(4*a*c)))/(2*a);
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}
else if(d==0)
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}
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```



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Command Prompt

Microsoft Windows [Version 10.0.18363.1139]
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C:\Users\sohan>cd C:\Users\sohan\Desktop\Java Programs\Quadratic Eq

C:\Users\sohan\Desktop\Java Programs\Quadratic Eq>javac Quadratic.java

C:\Users\sohan\Desktop\Java Programs\Quadratic Eq>java Quadratic

Enter the value of b:

34

Enter the value of a:

-21

Enter the value of c:

4

First root is:-0.11015275789656984

Second root is:1.7292003769441888

C:\Users\sohan\Desktop\Java Programs\Quadratic Eq>_



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ENG

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06-11-2020

