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Quadratic - Notepad
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import java.util.Scanner;
import static java.lang.Math.sqrt;
class Quadratic{
public static void main(String[] args){
double a,b,c,D,r1,r2,real,imagnery;
Scanner R = new Scanner(System.in);
System.out.println("Enter the coefficient");
a = R.nextDouble();
b = R.nextDouble();
c = R.nextDouble();
D = (b*b)-(4*a*c);
if(D==0)
r1=r2=-b/(2*a);
System.out.println(" Roots are equqal");
System.out.println("Roots are = " +r1+ "and " +r2);
}else if(D>0)
{ System.out.println(" roots are different");
 r1= (-b+sqrt(D))/(2*a);
 r2 = (-b-sqrt(D))/(2*a);
System.out.println("Roots are = " +r1+ " and " +r2);
}else
 System.out.println(" There are no real solutions");
 real = -b/(2*a);
 imagnery = sqrt(-D)/(2*a);
 System.out.println("real and imaginary Roots are = " +real+ " and " +imagnery);
```

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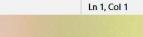














Windows (CRLF)



UTF-8

- 0 X Administrator: Command Prompt Microsoft Windows [Version 10.0.18362.836] (c) 2019 Microsoft Corporation. All rights reserved. C:\Windows\system32>cd C:\Program Files\Java\jdk1.8.0_261\bin C:\Program Files\Java\jdk1.8.0_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0_261\bin>java Quadratic Enter the coefficient Roots are = -2.0and -2.0C:\Program Files\Java\jdk1.8.0_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0_261\bin>java Quadratic Enter the coefficient -3 -10 Roots are = 5.0 and -2.0C:\Program Files\Java\jdk1.8.0_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0_261\bin>java Quadratic Enter the coefficient There are no real solutions real and imaginary Roots are = -0.5 and 0.8660254037844386 C:\Program Files\Java\jdk1.8.0_261\bin>

