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D:\Java\jdk1.8.0_261\bin\prog\quadeqn.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
quadeqn.java example.java
1 import java.util.Scanner;
2 import java.lang.Math;
3 class quadeqn
4 { public static void main(String args[])
5 { double a,b,c,d;
6 double r1,r2;
7 Scanner get=new Scanner(System.in);
8 System.out.println("Enter the three coefficients according to decreasing power of x:\n");
9 a=get.nextDouble();
10 b=get.nextDouble();
11 c=get.nextDouble();
12
13 System.out.println("a="+a+" b="+b+" c="+c);
14 d=b*b-4*a*c;
15 if(d>0)
16 { System.out.println("Roots are real and unequal");
17 r1=(-b+Math.sqrt(d))/(2*a);
18 r2=(-b-Math.sqrt(d))/(2*a);
19 System.out.println("\nr1= "+r1+" r2="+r2);
20 }
21 else
22 if(d==0)
23 {System.out.println("Roots are real and equal");
24 r1=(-b)/(2*a);
25 System.out.println("\nr= "+r1);
26 }
27 else
28 if(d<0)
29 System.out.println("Roots are imaginary");
30 }
31 }
32 }
33
Java source file length: 826 lines: 33 Ln: 6 Col: 16 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
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Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
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C:\Users\stand>d:
D:\>cd D:\Java\jdk1.8.0_261\bin\prog
D:\Java\jdk1.8.0_261\bin\prog>set path="D:\Java\jdk1.8.0_261\bin"
D:\Java\jdk1.8.0_261\bin\prog>javac quadeqn.java
D:\Java\jdk1.8.0_261\bin\prog>java quadeqn
Enter the three coefficients according to decreasing power of x:
1
1
1
a=1.0 b=1.0 c=1.0
Roots are imaginary

D:\Java\jdk1.8.0_261\bin\prog>java quadeqn
Enter the three coefficients according to decreasing power of x:
1
-2
1
a=1.0 b=-2.0 c=1.0
Roots are real and equal
r= 1.0

D:\Java\jdk1.8.0_261\bin\prog>java quadeqn
Enter the three coefficients according to decreasing power of x:
1
-3.2
2.56
a=1.0 b=-3.2 c=2.56
Roots are real and unequal
r1= 1.6000000210734244 r2=1.5999999789265757
D:\Java\jdk1.8.0_261\bin\prog>
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