

C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS\quadratic.java - Notepad++

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1 import java.util.Scanner;
2 import java.lang.Math;
3 class quadeqn
4 { public static void main(String args[])
5 { int 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.nextInt();
10 b=get.nextInt();
11 c=get.nextInt();
12 System.out.println("a="+a+" b="+b+" c="+c);
13 d=b*b-4*a*c;
14 if(d>0)
15 { System.out.println("Roots are real and unequal");
16 r1=(-b+Math.sqrt(d))/(2*a);
17 r2=(-b-Math.sqrt(d))/(2*a);
18 System.out.println("\nr1= "+r1+" r2="+r2);
19 }
20 else
21 if(d==0)
22 {System.out.println("Roots are real and equal");
23 r1=(-b)/(2*a);
24 System.out.println("\nr= "+r1);
25 }
26 else
27 if(d<0)
28 System.out.println("Roots are imaginary");
29
30 }
31 }
```

Java source file length: 807 lines: 31 Ln: 31 Col: 2 Sel: 0 | 0 Windows (CR LF) UTF-8 INS 20:03 28-12-2020

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C:\Users\AKSHAT SURANA>cd C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS
C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS>set path="C:\Program Files\Java\jdk1.8.0_261\bin"
C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS>javac quadeqn.java
C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS>java quadeqn
Enter the three coefficients according to decreasing power of x:
1
2
3
a=1 b=2 c=3
Roots are imaginary

C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS>java quadeqn
Enter the three coefficients according to decreasing power of x:
-4
8
0
a=-4 b=8 c=0
Roots are real and unequal
r1= -0.0 r2=2.0

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

C:\Program Files\Java\jdk1.8.0_261\bin\OOJPROGRAMS>
```