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quadratic.java - Notepad
     Edit View
      void compute()
            while(a==0)
                 System.out.println("Not a quadratic equation");
                 System.out.println("Enter a non zero value for a:");
                 Scanner s = new Scanner(System.in);
                 a = s.nextInt();
           d = b*b-4*a*c;
            if(d==0)
                 r1 = (-b)/(2*a);
                 System.out.println("Roots are real and equal");
                 System.out.println("Roo1 = Root2 = " + r1);
           else if(d>0)
                  r1 = ((-b)+(Math.sqrt(d)))/(double)(2*a);
                  r2 = ((-b)-(Math.sqrt(d)))/(double)(2*a);
                 System.out.println("Roots are real and distinct");
                 System.out.println("Roo1 = " + r1 + " Root2 = " + r2);
           else if(d<0)
                 System.out.println("Roots are imaginary");
                 r1 = (-b)/(2*a);
                 r2 = Math.sqrt(-d)/(2*a);
                 System.out.println("Root1 = " + r1 + " + i"+r2);
                  System.out.println("Root1 = " + r1 + " - i"+r2);
class QuadraticEq
      public static void main(String args[])
            Quadratic q = new Quadratic();
           q.getd();
           q.compute();
```

Ln 7, Col 18

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UTF-8

quadratic.java - Notepad £ File Edit View //Lab Program 1: /*Q) Develop a Java program that prints all real solutions to the quadratic equation ax2+bx+c = 0. Read in a, b, c and use the quadratic formula. If the discriminate b2 -4ac is negative, display a message stating that there are no real solutions.*/ import java.util.Scanner; class Quadratic int a, b, c; double r1, r2, d; void getd() Scanner s = new Scanner(System.in); System.out.println("Enter the coefficients of a,b,c"); a = s.nextInt(); b = s.nextInt(); c = s.nextInt(); void compute() while(a==0) System.out.println("Not a quadratic equation"); System.out.println("Enter a non zero value for a:"); Scanner s = new Scanner(System.in); a = s.nextInt(); } d = b*b-4*a*c; if(d==0)r1 = (-b)/(2*a);System.out.println("Roots are real and equal"); System.out.println("Roo1 = Root2 = " + r1); else if(d>0) r1 = ((-b)+(Math.sqrt(d)))/(double)(2*a); r2 = ((-b)-(Math.sqrt(d)))/(double)(2*a);

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