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| Quadratic Equation |
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import java.util.Scanner;

import java.lang.Math;

class QuadraticEquation {

public static void main (String args[]){

float a, b, c, d;

double root1, root2;

Scanner s = new Scanner(System.in);

System.out.println("Enter coefficients:");

a=s.nextFloat();

b=s.nextFloat();

c=s.nextFloat();

d=(b\*b-(4\*a\*c));

if(a==0)

{

System.out.println("Not a quadratic equation");

}

else if (d>0)

{

root1=(-b+Math.sqrt(d))/(4\*a\*c);

root2=(-b-Math.sqrt(d))/(4\*a\*c);

System.out.println("Real and distinct roots are:"+root1+" and "+root2);

}

else if(d<0)

{

root1=-b/(2\*a);

root2=d/(2\*a);

System.out.println("Imaginary roots and distinct are:"+root1+"+i"+root2+" and "+root1+"-i"+root2);

}

else if(d==0){

root1=root2=-b/(2\*a);

System.out.println("Real roots are:"+root1+"and"+root2);

}

}

}

