1. Java Program to Solve Quadratic Equation

package quadratic\_equation;

import java.util.Scanner;

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public class Quadratic\_equation {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

Scanner input = new Scanner(System.in);

System.out.print("Enter the value of a: ");

double a = input.nextDouble();

System.out.print("Enter the value of b: ");

double b = input.nextDouble();

System.out.print("Enter the value of c: ");

double c = input.nextDouble();

double d= b \* b - 4.0 \* a \* c;

if (d> 0.0)

{

double r1 = (-b + Math.pow(d, 0.5)) / (2.0 \* a);

double r2 = (-b - Math.pow(d, 0.5)) / (2.0 \* a);

System.out.println("The roots are " + r1 + " and " + r2);

}

else if (d == 0.0)

{

double r1 = -b / (2.0 \* a);

System.out.println("The root is " + r1);

}

else

{

System.out.println("Roots are not real.");

}

}

}

