***Write a Java program that prints all real solutions to the quadratic equation ax^2 + bx + c = 0. Read in a, b, c and use the quadratic formula. If the discriminant b^2 - 4ac is***

***negative, display a message stating that there are no real solutions.***

import java.util.Scanner;

public class QuadraticEquationSolver {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter coefficient a: ");

double a = scanner.nextDouble();

System.out.print("Enter coefficient b: ");

double b = scanner.nextDouble();

System.out.print("Enter coefficient c: ");

double c = scanner.nextDouble();

double discriminant = b \* b - 4 \* a \* c;

if (discriminant < 0) {

System.out.println("No real solutions. Discriminant is negative.");

} else {

double root1 = (-b + Math.sqrt(discriminant)) / (2 \* a);

double root2 = (-b - Math.sqrt(discriminant)) / (2 \* a);

System.out.println("Root 1: " + root1);

System.out.println("Root 2: " + root2);

}

scanner.close();

}

}