**Day 8 coding Statement:** **Write a program to find roots of a quadratic equation**

Description

Get the values of a, b and c (coefficients of quadratic equation) as input from the user and calculate the roots and print as the output.

Input

Enter the value of a, b and c : 1 -6 9

Output

Roots are equal

Root 1= root 2 = 3.00

import java.util.Scanner;

import java.lang.Math;

public class RatanPrajapati\_day8 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter the value of a, b and c : ");

        int a = sc.nextInt();

        int b = sc.nextInt();

        int c = sc.nextInt();

        double root1 = 0, root2 = 0;

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

        if (descriminant < 0) {

            System.out.println("Roots are Imaginary");

        } else if (descriminant > 0) {

            root1 = ((-b) - Math.sqrt(descriminant)) / (2 \* a);

            root2 = ((-b) + Math.sqrt(descriminant)) / (2 \* a);

            System.out.printf("Roots are Real\nRoot 1 = %,.2f", root1);

            System.out.printf(" Root 2 = %,.2f", root2);

        } else {

            root1 = (-b) / (2 \* a);

            System.out.println("Roots are equal\n" + "Root 1 = root 2 = " + root1);

        }

    }

}