QuadraticRoots.java 2

C: > Users > KALYAN > Desktop > SEM3 > java > QuadraticRoots.java > QuadraticRoots > main(String[])

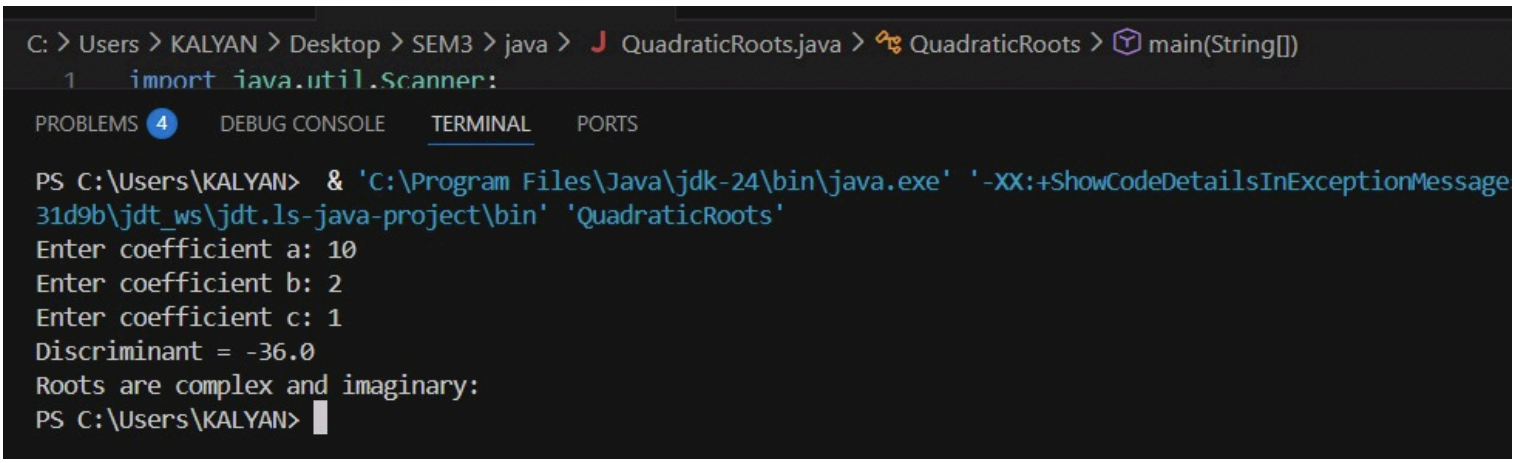
```java
import java.util.Scanner;

public class QuadraticRoots {
    Run | Debug
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print(s: "Enter coefficient a: ");
        double a = scanner.nextDouble();
        System.out.print(s: "Enter coefficient b: ");
        double b = scanner.nextDouble();
        System.out.print(s: "Enter coefficient c: ");
        double c = scanner.nextDouble();

        double d= b * b - 4 * a * c;

        System.out.println("Discriminant = " + d);

        if (d> 0) {
            double root1 = (-b + Math.sqrt(d)) / (2 * a);
            double root2 = (-b - Math.sqrt(d)) / (2 * a);
            System.out.println(x: "Roots are real and distinct:");
            System.out.println("Root 1 = " + root1);
            System.out.println("Root 2 = " + root2);
        }
        else if (d== 0) {
            double root = -b / (2 * a);
            System.out.println(x: "Roots are real and equal:");
            System.out.println("Root = " + root);
        }
        else {
            System.out.println(x: "Roots are complex and imaginary:");
        }
    }
}
```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1 import java.util.Scanner;
PROBLEMS 4
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\KALYAN> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessage
31d9b\jdt_ws\jdt.ls-java-project\bin' 'QuadraticRoots'
Enter coefficient a: 10
Enter coefficient b: 2
Enter coefficient c: 1
Discriminant = -36.0
Roots are complex and imaginary:
PS C:\Users\KALYAN>