

LAB-1
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```
import java.util.Scanner;

public class Lab1 {
    public static int det(int a, int b, int c) {
        int d = b * b - 4 * a * c;
        return d;
    }

    public static void main (String [] args) {
        double r1, r2, real, imag;
        Scanner x = new Scanner (System.in);
        System.out.println("Enter the a, b, c values:");
        int a = x.nextInt();
        int b = x.nextInt();
        int c = x.nextInt();
        int d = det(a, b, c);
        if (d == 0) {
            r1 = -b + Math.sqrt(d * 1.0);
            r2 = -b - Math.sqrt(d * 1.0);
            System.out.println("the roots are real and equal: " + r1 + ", " + r2);
        }
        if (d > 0) {
            r1 = -b + Math.sqrt(d * 1.0);
            r2 = -b - Math.sqrt(d * 1.0);
            System.out.println("the roots are real but not equal: " + r1 + ", " + r2);
        }
        if (d < 0) {
            real = -b;
            imag = d;
        }
    }
}
```

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