1) Quadratic Equation:

```java
import java.util.Scanner;
public class Quadratic {
    public static void main (String [] strings) {
        Scanner.out.print ("Input a: ").
        double a = input.nextDouble();
        System.out.print ("Input b: ");
        double b = input.nextDouble();
        System.out.print ("Input c: ");
        double c = input.nextDouble();

        double result = b*b - 4.0*a*c;
        if (result > 0.0)
        {   double r1 = (-b + Math.pow (result, 0.5)) / (2.0*a)
            double r2 = (-b - Math.pow (result, 0.5)) / (2.0*a);
            System.out.println ("The roots are "+r1+ "and" +r2);
        }
        else if (result == 0.0) {
            double r1 = -b/ (2.0*a);
            System.out.print ln ("The roots are equal and real
                            and is "+ r1);
        } else {
            System.Out.println ("the equatn has no real roots")
        }
    }
}
```