

COJ
LAB-1

Lushmitha Y.V
18M19C5165
3D
Lab-1

```
import java.util.Scanner;
import java.lang.*;

class Quadratic {
    public static void main (String [] args)
    { double a, b, c, x1, x2, d;
        Scanner scan = new Scanner (System.in);
        System.out.println ("Enter the co-efficients
            of the quadratic equation a, b and c\n");

        a = scan.nextDouble();
        b = scan.nextDouble();
        c = scan.nextDouble();

        d = b*b - (4*a*c);
        if (d < 0)
        { system.out.println ("There are no
            real solutions for this
            quadratic equation\n");

            System.exit (0); }

        x1 = (-b + Math.sqrt(d)) / (2*a);
        x2 = (-b - Math.sqrt(d)) / (2*a);
```

if ($d == 0$)

{ system.out.println("The solutions are real
and equal to " + x_1);

}

else

{ system.out.println("The real solutions
are\n" + x_1 + " and " + x_2); }

}

}