

Rakesh Kumar G
1BM17CS071

OO J Lab - Week - 3

```
import java.util.Scanner;
import java.lang.*;
public class quadratic {
    public static void main(String[] args) {
        double a, b, c, d, x1, x2;
        System.out.println("Enter coefficients
            a, b and c:");
        Scanner in = new Scanner(System.in);
        a = in.nextDouble();
        b = in.nextDouble();
        c = in.nextDouble();
        d = b*b - 4*a*c;
        double x = Math.sqrt(d);
        if (d > 0) {
            x1 = (-b + x) / (2*a);
            x2 = (-b - x) / (2*a);
            System.out.printf("x1 = %.2f and
                x2 = %.2f", x1, x2);
        }
        else if (d == 0) {
            x1 = x2 = -b / (2*a);
            System.out.printf("x1 = x2 = %.2f",
                x1);
        }
    }
}
```

}

else {

System.out.println("There are no real
solutions");

}