LP-1)

```
import java.util.*;
public class Lab1{
    public static void main(String[] args){
        Scanner sc= new Scanner (System.in);
        double a,b,c,r1,r2,d,m,n;
        System.out.println("Enter the values of
        a,b and c for the quadratic equation
        ax^2 +bx+c :");
        a=sc.nextDouble();
        b=sc.nextDouble();
        c=sc.nextDouble();
        d= b*b-4*a*c;
        if (d>0)
        {
            r1 = (-b+Math.sqrt(d))/(2*a);
            r2 = (-b-Math.sqrt(d)) /(2*a);
            System.out.println("Roots of the
            equation are:"+r1+" and "+r2);
        }
        else if (d==0){
            r1 = r2 = -(b/2*a); System.out.println("Roots of
        else{ m=(-b)/(2*a);  the equation are :"+r1+" and "
              n=Math.sqrt(-d) / (2*a);  +r2); }
            System.out.println("There are no real
            solutions");
            System.out.println("Roots of the
            equation are:"+m+"+"+n+"i");
            System.out.println("Roots of the
            equation are:"+m+"-"+n+"i");
        }
    }
}
```