LAB PROGRAM

```java
import java.util.Scanner
public class main
{
    public static void main (String args[])
    {
        double x=0, y=0;
        double a, b, c;
        double det;
Scanner sc = new Scanner (system.in);
System.out.println ("Enter the value of a: ");
a= sc.nextDouble ();
System.out.println ("Enter the value of b: ");
b = sc.nextDouble ();
System.out.println ("Enter the value for c: ");
c= sc.nextdouble ();
det = (b*b)-(4*a*c)
double sqrt = Math.sqrt (det);
if (det >0)
{
    x = (-b+ sqrt )/(2*a);
    y= (-b- sqrt )/(2*a);
    System.out.println ("Roots are:: "+ x+ " and " +y );
} else if (det == 0)
    { System.out.println ("Root is:: "+ (-b+sqrt)/(2*a));
} else
    System.out.println ("There are no real solutions");
}
```