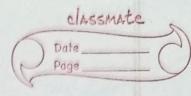


9/10/2	1 LAB PROGRAM-1
	Button to (2 x o x o) = (1 x d) = (do ladder)
	Develop a Java program that prints all
16(8)	Develop a Java program that prints all real solutions to the quadratu equation
(1	ax + bz+c=0. Lead a, bic and use the
MA	quadratu formmela. If the discuminate b^2-4ac is negative, display a message stabing that there are no real
	b2-tac is negative, display a message
	Staling that there are no real
	8 obnitions
->	import jara. util. Scanner;
	import jara util Scanner;
4.0	public class quadratie {
	public static void main (Staning [] angs) {
	Beamer = new scommer (System-in);
	domain and the second of the s
	System-out-parent ("Entre coefficients of a, b, c!);
	System: out: permt (" Entre a: ");
	double a = scannin · mixt Double ();
	System out parnt ("Entre b: ");
	double b = 8commu nextDouble();
	Syxtimo.out.punit ("Enter L:");
	double C = 8 commu next Double ();
	a=0
	(1 (att))
	System out-pernt ("Not a quadratu equation") 3

```
double d= (b*b)-(4*a*c);
elsel
 if (d>0) {
    double 2001 = (-b + Math.sqrt(d)) / (2+a);
    double 200t 2 = (-b + Math-sqrt(d)) / (2 * 9);
    System out println ("The roots are real and
                  diffund ");
    System. out puntln ("Root 1: " + 200+1);
    System. out puntln ("Root 1: " + 200+2);
else uf (d = 0)?

double 200t = -b/(2*4);
    Eystem. out punth (" The roots are real and
                      equal");
   System. out. pantlin ("Root: "+ 200t);
else
      double realPart = b/(2 x a);
     double imagPart = Math. sqrt(d) ((2 + a);
      System out prote ("Roots are complex and
                   diffrent ");
      System out parattern ("Root 1: " + real Part +
                + Imaglant + will);
     System out partin ["Root 2:" + real Part + "-"
                  imagfast + "i");
```



System. out punt ("no real roots"); Scommer · close (); mud som arraginas marks Rott 1: 20-2679491 Koot 2: -3.7320505 ofb: Entre coeffrents of a,b,c: Entre a: 0 Entu b: + Entu & C: 6 Not a quadratu equation Enter coefficients of a,b,c: Entre a: 5 Entu b: 7 Entr L: 9 No real roots Entre coeffrents of a,b,c: Entu a: 2 Entro b: 4 Enter c: The roots are real and equal

Root: -1.0

