LAB PROGRAM 1

Develop a Java program that prints all real solutions to the quadratic equation ax2 + bx + c = 0. Read in a, b, c and use the quadratic formula. If the discriminate b2-4ac is negative, display message stating that there are no real solutions.

import java util . Seanney;
Class Equation
3
fublic static void main (strings args [])
Scanner SC = new Scanner (System in);
Scanner SC = new Scanner (System.in); double soot 1, soot 2;
double
System. out, feintln ("Enter value of a:\n");
double a = SC. nextedouble();
System out perinten ("Enter value of b: \n");
double b = Sc. nextoDouble ();
System out freindln (" 3nter value of c: \n");
double c'= sc. next Double();
double det = (b+b) - (4*a*c);
double sgort = Math, sgort (det);
4 (det>0)
D Ş
200t = (-b + squt)/(2*a);
200t2 = (-b - 3ant)/(2*a);
System out fruintly ("Roots are: " + root 1 + " and"
+ 200t2);
else if (det ==0)
3
else if (det ==0) System. out. frintln("Root is:"+(-6+sgrt)/

```
the if (det == 0)

System out frintln ("Root is:"+(-b+sgrt)/
(2*a));

else if (det <0)

System out frintln ("Roots No real sor");
```

```
Enter the value of a :

Enter the value of b :

Enter the value of c :

No Real Solutions
```