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 a message stating that there are no real solutions.

CODE SNIPPET:

	Date 18/11/22 C
	105
Friday	
	LAB-1 (25) 1; al9
	Develop a Java program that prints all real solutions to the
	quadratic equation an2+bn+c=0. Read a,b,c and use the
	quadratic foormula. If the discorrannate be- 400 is negative,
	display a message estating that there are no sear Solutions.
	imposel java. util. Sounnez;
	class quad
	(Suppringer at door days at a property of the state of t
	public static void main (Staning XXE3)
	(16) and sound (Math. about 1)
	intaginabilinta; one door of ") allowed the money
	((EV) double d; + " = " + " ; " + " = " + 18 + " hap " + (ES)) + mps Hard +
	double at, 912;
	- Scanner SI= New Scanner (System.in);
	System. out. pointln (" enter the values of a, b, (");
	cl = 51. nent Int();
	b= SI. nextInt();
	(= S1. next Int ();
	d=b+b-(4*a*();
	:t(a==0)
	1
	System. out. parintln ("The equation is not quadratic");
	is the specific of the specifi
	else if (d ==0)
	6.75 14 (% 2)
	San I am the Curter Start of S
	System. out-parintln ("The aloots one seed and equal");
	n1 = -b/(2*a);
	System. out. parinilla (311);
	3

OUTPUT:

```
C:\Users\bmsce\Desktop\1BM21CS022>javac quad.java
C:\Users\bmsce\Desktop\1BM21CS022>java quad
enter the values of a,b,c
0 2 3
the equation is not quadratic
C:\Users\bmsce\Desktop\1BM21CS022>java quad
enter the values of a,b,c
3 -18 27
the roots are real and equal
3.0
C:\Users\bmsce\Desktop\1BM21CS022>java quad
enter the values of a,b,c
1 -1 -6
the roots are real and distinct
3.0, -2.0
C:\Users\bmsce\Desktop\1BM21CS022>java quad
enter the values of a,b,c
1 -2 5
the roots are imaginary
the roots are 1.0+i*2.0and1.0-i*2.0
```