Lab program 0

Divelop a Jova program that prints all real world solutions to the quadratic equation $ax^2 + bx + C = 0$. Read in a, b, c and use the quadratic formula, If the discriminate $b^2 - 4ac$ is negative, display a message stating that there are no real solutions.

Algorithm:1) Input a, b, c.

2) d = b2 - 4ac.

3) if (d = 0)

print("Two equal roots")?

71=72= -b/2a.

72 = 71

u) else if (d 70)

print (" Two distinct real roots")

71= (-b+math sgrt (d))/2 a

 $\Upsilon^2 = (-b - Sqrt(d))/2a$

5) else

print ("No real solution")

6) Exit.

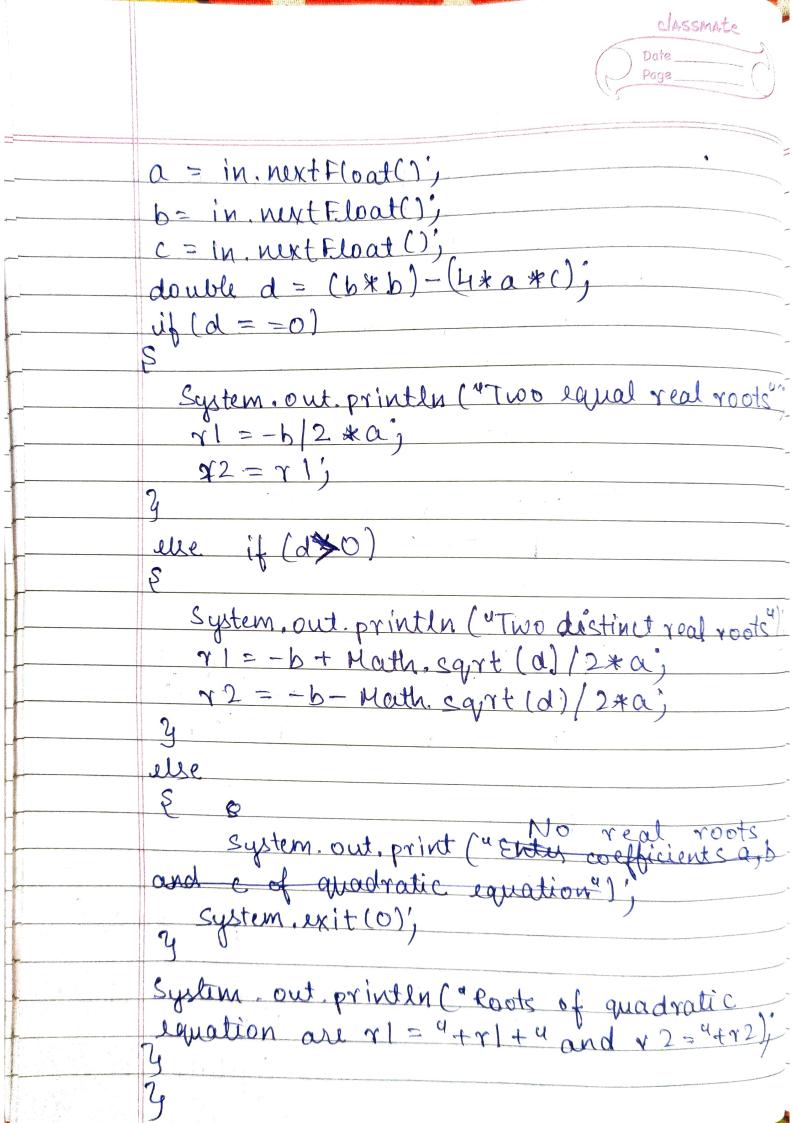
Jass quadratic ?

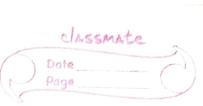
public static void main (String [] args) &

double a, b, c, x 1=0, x2=0;

System. out. print (a Enter coefficients a, b and

c of quadratic equation "); Scanner in = new Scanner (System. in);





	3	
Expected output:	tini ir ir salati kangangan kangan kanga Managan Citin na antagan melalah kangan	
Enter coefficients of a, b, and c equation 1 2 1		
Two equal real roots Roots of quadratic equation are 72 = -1.0	٠ ١٢٠	Loand
Enter coefficients a, b, and c	· of	quadratic
Turo dialina		

Two distinct real roots

Poots of quadratic equation are 71 = -2.585

and 72 = -5.414

Enter coefficients a, b. and c of quadratic equation 2 1 1

No real roots.